COSPAR 2024

45TH SCIENTIFIC ASSEMBLY

July 13-21, 2024 | BEXCO, BUSAN, KOREA

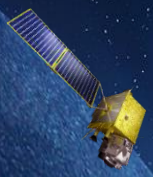
SCAN ME

COSPAR APP

FINAL PROGRAM

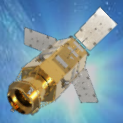
www.cospar2024.org

Total Solution Provider in Aerospace



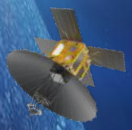
GEO-KOMPSAT 2A/2B

(2A) Weather, Space observation
(2B) Marine/Environmental observation



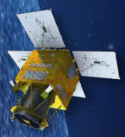
KOMPSAT-7/7A (EO/IR)

Earth observation with super resolution



Military Satellite (SAR)

Surveillance & Reconnaissance with super resolution

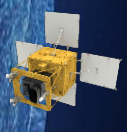


CAS500-2 (EO)

Land Management

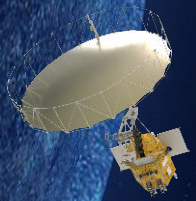
CAS500-3

Space Science Verification



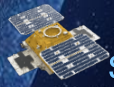
CAS500-4 (EO)

Agriculture/Forest observation



CAS500-5 (SAR)

Water Resource Management



Small Satellite (SAR)

Surveillance Constellation Operation

KSLV-II

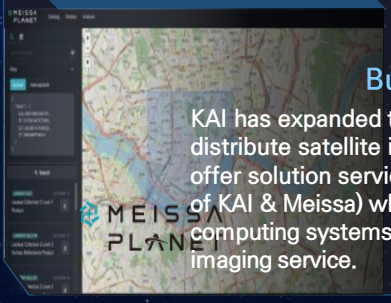
Korean Space Launch Vehicle

Satellite

+30 years of heritage

Since 1994, KAI has participated in the majority of ROKG's satellite development programs as a major key player based on our development capabilities and experiences with high reliabilities.

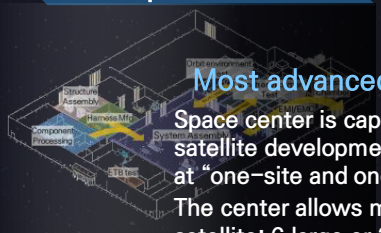
Satellite Data Service



Business diversification

KAI has expanded the business scope to distribute satellite images, analyze data and offer solution service with Meissa Planet (JV of KAI & Meissa) where specializes in computing systems, AI, GIS and satellite imaging service.

KAI Space Center



Most advanced facility within Korea

Space center is capable of conducting satellite development, manufacturing & AIT at "one-site and one-stop".

The center allows mass production of satellite; 6 large or 20 small satellites simultaneously.

KAI KOREA AEROSPACE INDUSTRIES, LTD.

Message from the COSPAR President

Welcome to the 45th COSPAR Scientific Assembly in Busan, South Korea. Themed "Team Spirit in Space Research," COSPAR 2024 offers a platform to share groundbreaking research findings and expertise, fostering professional connections with scientist and industry stakeholders as well as friendships across borders. This event features a rich program of scientific and business sessions, exhibitions, networking events, and cultural activities, creating a dynamic environment for space stakeholders to engage in discussions about current challenges and envision the future of space research together.

Founded in 1958 under the International Science Council's charter, the Committee on Space Research (COSPAR) is dedicated to advancing global space research. As a leading international scientific society in space research, COSPAR's membership is comprised of 46 national scientific institutions and 13 international scientific unions, bringing together over 13,000 space scientists. With eight scientific commissions covering all space science disciplines—from Earth and atmospheric sciences to planetary science, astrophysics, solar and space plasma physics, as well as life and microgravity sciences, COSPAR is the foremost global platform for space research. The organization's specialized panels and task groups play a critical role in furthering its mission.

The Local Organizing and Program Committees, led respectively by Jong Uk "James" Park (Chair of the Local Organizing Committee) and Dong-Hun Lee (Chair of the Program Committee), with essential support and input from all event organizers, have meticulously prepared an exceptional Scientific Assembly. The program is packed with the latest discoveries presented by top space scientists, high-level meetings of space agency leaders, industry panels, interdisciplinary lectures, engaging public talks, and exhibitions from major space agencies. Furthermore, the Assembly also features numerous opportunities and special events for young professionals.

Set in Busan, a city that blends ancient charm with dynamic modernity, the event offers unparalleled networking opportunities with key decision-makers, industry leaders, academics, and government officials. COSPAR 2024 also provides a unique chance to engage with the vibrant Korean space industry, connect with peers, recruit talent, discover new products and services, and share your enthusiasm for space science.

COSPAR Busan 2024 is made possible thanks to the generous sponsorship provided by Korea Aerospace Industry as Anchor Sponsor, Boryung as Diamond Sponsor, The Satellite Brewing as the Official Brewery, Lockheed Martin, JPL as Tailor Made Sponsors and more than 30 other sponsors/exhibitors and public supporters, including Busan Metropolitan City, Korea Aerospace Research Institute, International Basic Science Institute and so on.

We warmly welcome you to Busan to push the boundaries of space science and collaboration. Your participation and support are vital as we address the challenges and seize the opportunities within the rapidly evolving space sector together.

Sincerely,

Pascale Ehrenfreund
President of COSPAR

COSPAR Officers and Secretariat

COSPAR Bureau (2022 - 2026)

PRESIDENT	Pascale Ehrenfreund (Netherlands/USA)
VICE-PRESIDENTS	Catherine Cesarsky (France)
	Pietro Ubertini (Italy)
MEMBERS	Vassilis Angelopoulos (USA)
	Masaki Fujimoto (Japan)
	Manuel Grande (UK)
	Petra Rettberg (Germany)
	Iwona Stanislawska (Poland)
	Chi Wang (China)

COSPAR Finance Committee (2022 - 2026)

PRESIDENT	Iver H. Cairns (Australia)
MEMBERS	Cristina Mandrini (Argentina)
	Jean-Pierre Saint-Maurice (Canada)

COSPAR Secretariat

EXECUTIVE DIRECTOR	Jean-Claude Worms (France)
ASSOCIATE DIRECTOR	Aaron Janofsky (USA/France)
ADMINISTRATIVE COORDINATOR	Leigh Fergus (UK/France)
ACCOUNTANT	Annia Stepniak (France)

COSPAR
2, place Maurice-Quentin, 75039 Paris Cedex 01, France
cospar@cosparhq.cnes.fr
https://cosparhq.cnes.fr

COSPAR Code of Conduct

COSPAR strives for professionalism, integrity, and respect. By participating in the 45th COSPAR Scientific Assembly, you agree to abide by the COSPAR Code of Conduct, available HERE. If you encounter any harassment, intimidation or abuse during the Assembly, please contact code-of-conduct@cosparhq.cnes.fr.

COSPAR (Overview of the Organization)

The Purpose of COSPAR, an organisation affiliated to the International Science Council (ISC), is "to promote at an international level scientific research in space, with emphasis on the exchange of results, information and opinions, and to provide a forum, open to all scientists, for the discussion of problems that may affect scientific space research.
COSPAR Charter, COSPAR Statement of Principles

COSPAR was born just after the launch of Sputnik-1, and its Scientific Assemblies soon became the cradle from which the space research community incorporated new scientific areas and gave rise to many international projects from which we continue to to employ the contributions of all their talents to exploit the wealth of data that national and international missions have delivered. The COSPAR Strategic Action Plan guides actions by the leaders and volunteers of COSPAR by establishing COSPAR's unique importance for each of its constituents and stakeholders. The Plan contains detailed actions for each constituent and stakeholder, all of which are in compliance with the Principles of COSPAR.

The Mission of COSPAR is first and foremost Service to the International Space Science Community in its pursuit of a vibrant international space research effort, conducted without impediment from geopolitical tensions or differences. The space science community, in turn, is dependent upon the space programs of their nation or region, and thus the Mission of COSPAR also includes Service to Developed Space Programs and Service to Developing Space Programs.

Service to the International Space Science Community

Over the years, COSPAR has developed various capabilities to serve the international space science community, along with either developed or developing space programs. These capabilities and how they are deployed to achieve the COSPAR Missions are illustrated in the figure below.

The fundamental organizational structure of COSPAR consists of its Scientific Commissions, in which all international space scientists participate, and which represent each and every scientific discipline involved in space, for the purpose of coordinating the activities of, promoting the interests of, and exploiting the synergies among the Commissions. The COSPAR Panels are designed to deal with crosscutting issues that can affect particular segments of the international space research community, and often for which there is an urgent need for input.

Task Groups can be established for a limited duration to address a specific mission, often derived from the recommendations of COSPAR roadmaps. The Task Group on establishing a Constellation of Small Satellites has recently laid down plans for COSPAR to become an international "honest broker" between several partners, research institutions, industry and space agencies, to develop constellations of small satellites to study the heliosphere, the Earth radiation belt or cis-lunar space.

The publications of COSPAR, Advances in Space Research and Life Sciences in Space Research journals, provide peer-reviewed publications, in which all international space scientists can disseminate the results of their research. The new COSPAR Book Series is starting, with a first volume to appear on Titan in July 2024.

COSPAR Roadmaps, in which the international space science community comes together and documents the state of particular disciplines and states what is possible and needs now to be undertaken, are designed to allow scientists from around the world to know the aspirations of all nations, and to influence the planning processes of space agencies.

Education and outreach to youth and the general public are also an integral part of COSPAR's mission of spreading knowledge and information about space research and its benefits to humankind. The next COSPAR Roadmap will be dealing with space-related education and outreach.

Service to Developed Space Programs

The capabilities of COSPAR that are designed to serve the international space science community, with aspects of particular importance to the developed space programs, include:

- The biennial Assemblies, which are required to take place in the best possible conditions in order to guarantee maximum visibility and attendance from all countries interested in space research.
- The Panel on Planetary Protection, which is designed to fulfil the mandate granted to COSPAR to insure that nations capable of planetary exploration protect these pristine environments from human contamination.

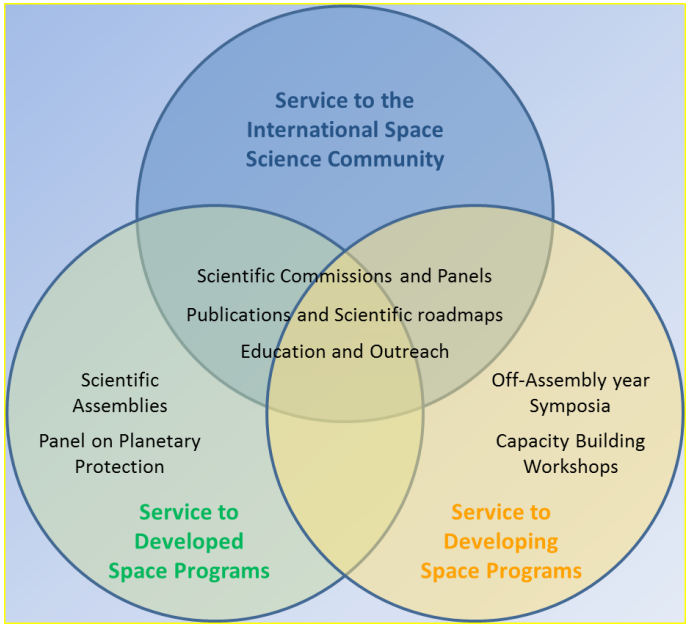
Service to Developing Space Programs

The capabilities of COSPAR that are designed to serve the international space science community, with aspects of particular importance to the developing space programs, include:

- The Off-Assembly-Year Symposia, which consider broad, interdisciplinary topics in venues not suitable for the larger Assemblies, are designed to promote space research and encourage the development of space science communities in nations with developing space programs.
- The Capacity Building Workshops, and the Capacity Building Fellowships that allow young scientists to build on the skills gained at the Workshops, are designed to extend the benefits of participation in space research to developing nations. In 2024, we have established a new Capacity Building program through collaboration in the area of small satellites, where institutes and universities, in particular in developing countries, which are interested in developing small satellites through the establishment or expansion of a local laboratory may join the project.

Governance

COSPAR has two kinds of Members: National Scientific Institutions which are engaged in space research and International Scientific Unions federated in ISC. Any scientist engaged in space research becomes a COSPAR Associate by attending a COSPAR biennial Assembly, Symposium, Colloquium, or Capacity Building Workshop. The Committee currently counts over 13,000 Associates. This means that COSPAR's involvement in international research programs is mainly through the activities of its Associates who belong to the international community of scientists.



The Committee also recognizes as Associated Supporters public or private organizations or individuals wishing to support COSPAR activities. In addition to 6 Associated Supporters, COSPAR is currently associated with two Industry Partners, Lockheed Martin Corporation and Northrop Grumman.

The COSPAR Council is comprised of the Committee's President, Representatives of member National Scientific Institutions and International Scientific Unions, the Chairs of Scientific Commissions, and the Chair of the Finance Committee. The Council provides overall supervision and takes major decisions, e.g., on the choice of the host countries for the next Assemblies. The Council also elects the President, Bureau Members and certain other Officers, the Bureau having day-to-day responsibility for COSPAR affairs.

National Scientific Institutions Members and Their Representatives
Member International Scientific Unions and their Representatives

COSPAR Scientific Structure and Officers:

Scientific Commissions / Panels / Task Groups
Other COSPAR Bodies

COSPAR Scientific Program Sponsorship

The financial support and scientific sponsorship of the following organizations and companies is gratefully acknowledged:

Agenzia Spaziale Italiana (ASI)

American Institute of Aeronautics and Astronautics (AIAA)

American Institute of Physics (AIP)

The Bartol Research Institute

Centre National d'Etudes Spatiales (CNES)

Cosine | Measurement Systems

Dalian Maritime University, Institute of Environmental Systems Biology

Deutsche Forschungsgemeinschaft (DFG)

DH Consultancy BV

Elsevier

European Org. for the Exploitation of Meteorological Satellites (EUMETSAT)

Indian Space Research Organisation (ISRO)

International Astronomical Union (IAU)

International Lunar Exploration Working Group (ILEWG) LUNEX Euromoonmars

Institute of Space and Astronautical Science (ISAS) of the Japan Aerospace Exploration Agency (JAXA)

International Union of Geodesy and Geophysics (IUGG)

IUGG/International Association of Geomagnetism and Aeronomy (IUGG/IAGA)

National Space Science Center (NSSC), Chinese Academy of Science (CAS)

Scientific Committee on Oceanic Research (SCOR)

Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)

Space Research Centre, Polish Academy of Sciences (CBK PAN)

Southwest Research Institute (SwRI)

Swiss Academy of Sciences (SCNAT)

Portions of the scientific program have been sponsored by the following organizations:

International Ocean Colour Coordinating Group (IOCCG)	
International Space Science Institute (ISSI)	
IUGG/International Association of Geodesy (IUGG/IAG)	
The Physical Society of Japan (JPS)	
ULTRASAT	

Instructions for Submission of Manuscripts to *Advances in Space Research* and *Life Sciences in Space Research*

Publication of Papers Resulting from Scientific Assembly Presentations

COSPAR encourages the publication of full papers resulting from presentations made at Scientific Assemblies in COSPAR's flagship journals *Advances in Space Research (ASR)* and *Life Sciences in Space Sciences (LSSR)*.

More information on these journals is at:
https://www.sciencedirect.com/journal/advances-in-space-research
and
https://www.sciencedirect.com/journal/life-sciences-in-space-research

Instructions for Submission of Manuscripts to *Advances in Space Research and Life Sciences in Space Research*

Advances in Space Research (ASR) and *Life Sciences in Space Research (LSSR)* are the flagship journals for the COSPAR community. *ASR* and *LSSR* are indexed in ISI Web of Science and Scopus, and *LSSR* is also indexed in PubMed. Both journals are completely open to appropriate submissions from the scientific community, and individuals making presentations at COSPAR Scientific Assemblies are encouraged to submit their complete manuscripts to *ASR* and *LSSR*.

There are no deadlines for the submission of papers, except for Special Issues. Manuscripts must be appropriate for refereeing and should be written in good English. Draft, incomplete or poorly written manuscripts will be returned without review.

While there are no publication charges or page limits, papers are expected to be of a length appropriate for the subject. Both journals also support OpenAccess, and a 30% discount is offered to meeting participants, as COSPAR Associates. Manuscripts should be submitted electronically at:

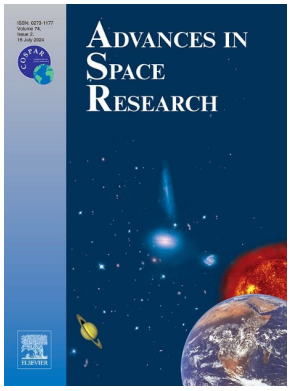
https://www.editorialmanager.com/aisr/default.aspx
or
https://www.editorialmanager.com/lssr/default.aspx

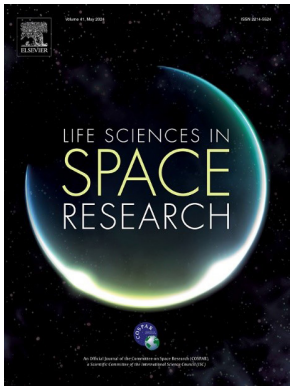
where you can find also a Guide for Authors. Before you may submit a manuscript, you must first register on one of the websites listed above.

Authors will be asked when submitting manuscripts to *ASR* to select an appropriate category from among the following for their paper (if not for an approved Special Issue): Astrophysics; Solar System Bodies; Earth Sciences; Earth Magnetosphere and Upper Magnetosphere; Solar and Heliospheric Physics; Fundamental Physics and Material Sciences in Space; Astrodynamics and Space Debris; and Space Technology, Policy and Education. For *LSSR*, please select from the following categories: Astrobiology; Habitability and Life Support; Space Radiation measurement and Detection; Radiation Environment, Biology and Health; and Gravitational Biology on Plant and Animals. All authors will also be asked to propose names of 3-5 potential reviewers. Accepted papers will be given a digital object identifier (DOI) shortly after acceptance and appear in an electronic version on Science Direct, i.e. they may be cited before being printed. Elsevier supports OpenAccess as well as electronic supplements.

Scientists, engineers, and mission planners with manuscripts appropriate for *ASR* and *LSSR* are invited to submit their papers to the Elsevier editorial system for *ASR* and for *LSSR* at any time throughout the year. The journals cover all disciplines of space research.

Questions on submission procedures should be directed to the *ASR* Editor-in-Chief (Pascal Willis, pascal.willis.17@gmail.com), the *LSSR* Editor-in-Chief (Tom Hei, tkh1@cumc.columbia.edu) or any of the co-editors or associate editors, many of whom are present at Scientific Assemblies.





COSPAR Scientific Commission/Panel Open Business Meetings

Each participant of the Assembly is encouraged to attend the open business meeting of the Scientific Commissions, Panels, and Task Groups of his/her choice. The schedule for the business meetings is below. The business meetings allow each Associate to participate in the affairs of COSPAR, e.g., contributing to the formulation of the preliminary scientific program for the following Assembly, electing or recommending officers, and so forth.

Each meeting is different depending on the communities involved, but the typical agenda might include the following points:

- Discussion of scientific matters
- Associates: The rights of Associates include being informed of and taking part in the scientific activities of the Commission, attending its meetings and taking part in any discussions, and participating in all of its votes (By-laws paragraph IX).
- Election of Scientific Commission officers
- Proposals for COSPAR meetings (including events for the next Scientific Assembly, future Capacity Building Workshops, and Colloquia)
- Preparation and publication of manuscripts in Advances in Space Research and Life Sciences in Space Research
- Evaluation of Scientific Commission structure
- Resolutions and recommendations
- Awards, including acknowledgement of the Outstanding Paper Award for Young Scientists
- Input to Space Research Today, COSPAR's information bulletin
- Lessons learned

Scientific Commission A

Wednesday, 17 July 2024, 12:30, Room 316, 3F, EC1

Sub-Commissions

A1: Tuesday, 16 July 2024, 12:30, Room 316, 3F, EC1
A2: Monday, 15 July 2024, 12:30, Room 316, 3F, EC1
A3: Thursday, 18 July 2024, 12:30, Room 317, 3F, EC1
TG GEO: Friday, 19 July 2024, 12:30, Room 316, 3F, EC1

Scientific Commission B

Friday, 19 July 2024, 12:30, Room 214, 2F, EC1

Sub-Commissions

B1: Tuesday, 16 July 2024, 12:30, Room 215, 2F, EC1
B3: Tuesday, 16 July 2024, 12:30, Room 217, 2F, EC1
B4: Wednesday, 17 July 2024, 12:30, Room 215, 2F, EC1
B5: Thursday, 18 July 2024, 12:30, Room 214, 2F, EC1
B6/E4: Thursday, 18 July 2024, 12:30, Room 215, 2F, EC1

Scientific Commission C

Thursday, 18 July 2024, 12:30, Room 312, 3F, EC1

Sub-Commissions

C1: Tuesday, 16 July 2024, 12:30, Room 313, 3F, EC1
C2: Tuesday, 16 July 2024, 12:30, Room 311, 3F, EC1
C3: Tuesday, 16 July 2024, 12:30, Room 312, 3F, EC1
RAPS: Monday, 15 July 2024, 12:30, Room 313, 3F, EC1
IRI: Monday, 15 July 2024, 12:30, Room 311, 3F, EC1
CIRA: Monday, 15 July 2024, 12:30, Room 312, 3F, EC1
C5/D4: Monday, 15 July 2024, 12:30, Room 314, 3F, EC1

Scientific Commission D

Friday, 19 July 2024, 12:30, Room 103, 1F, CON

Sub-Commissions

D1: Thursday, 18 July 2024, 12:30, Room 103, 1F, CON
D2/E3: Tuesday, 16 July 2024, 12:30, Room 102, 1F, CON
D3: Monday, 15 July 2024, 12:30, Room 103, 1F, CON
C5/D4: Monday, 15 July 2024, 12:30, Room 314, 3F, EC1

Scientific Commission E

Thursday, 18 July 2024, 12:30, Room 105, 1F, CON

Sub-Commissions

E1: Thursday, 18 July 2024, 12:30, Room 105, 1F, CON
E2: Thursday, 18 July 2024, 12:30, Room 105, 1F, CON
D2/E3: Tuesday, 16 July 2024, 12:30, Room 102, 1F, CON
B6/E4: Thursday, 18 July 2024, 12:30, Room 215, 2F, EC1

Scientific Commission F

Wednesday, 17 July 2024, 12:30, Room 212, 2F, EC1

Sub-Commissions

F1: Tuesday, 16 July 2024, 12:30, Room 211, 2F, EC1
F2: Tuesday, 16 July 2024, 12:30, Room 212, 2F, EC1
F3: Tuesday, 16 July 2024, 12:30, Room 213, 2F, EC1
F4: Tuesday, 16 July 2024, 12:30, Room 214, 2F, EC1
F5: Tuesday, 16 July 2024, 12:30, Room 218, 2F, EC1

Scientific Commission G

Tuesday, 16 July 2024, 12:30, Room 317, 3F, EC1

Scientific Commission H

Tuesday, 16 July 2024, 12:30, Room 216, 2F, EC1

Panels

PCB: Wednesday, 17 July 2024, 12:30, Room 317, 3F, EC1
PE: Friday, 19 July 2024, 12:30, Room 314, 3F, EC1
PEDAS: Wednesday, 17 July 2024, 12:30, Room 218, 2F, EC1
PEX: Wednesday, 17 July 2024, 12:30, Room 214, 2F, EC1
PIR: Thursday, 18 July 2024, 12:30, Room 201, 2F, CON
PoIS: Thursday, 18 July 2024, 12:30, Room 108, 1F, CON
PPP: Wednesday, 17 July 2024, 12:30, Room 214, 2F, EC1
PRBEM: Thursday, 18 July 2024, 12:30, Room 110, 1F, CON
PSB: Monday, 15 July 2024, 12:30, Room 105, 1F, CON
PSD: Thursday, 18 July 2024, 12:30, Room 217, 2F, EC1
PSSH: Thursday, 18 July 2024, 12:30, Room 109, 1F, CON
PSW: Wednesday, 17 July 2024, 12:30, Room 315, 3F, EC1

Task Groups

TGCSS: Thursday, 18 July 2024, 12:30, Room 106, 1F, CON
TGIGSP: Thursday, 18 July 2024, 12:30, Room 316, 3F, EC1
TGII: Wednesday, 17 July 2024, 12:30, Room 104, 1F, CON

ROOM KEY CON: Convention Hall EC1: Exhibition Center 1 EC2: Exhibition Center 2

Interdisciplinary Lectures, Roundtable of Space Agency Leaders, Public Lecture, Special Events

COSPAR Interdisciplinary Lectures

IDL 1. Climate Change – On the Brink of Disaster and the Brink of Salvation

Sunday, 14 July, 14:00, Room 205, 2F, CON

Andrew Dessler (Texas Center for Climate Studies, Texas A&M University, College Station, USA)

IDL 2. Unlocking the Secrets of Space Biology: From the Twin Study to Groundbreaking Open Science Discoveries

Sunday, 14 July, 14:25, Room 205, 2F, CON

Sylvain Costes (NASA Ames Research Center, Moffett Field, CA, USA)

IDL 3. Introduction of the new Korea Aerospace Administration (KASA)

Wednesday, 17 July, 14:00, Room 205, 2F, CON

John Lee (Vice Administrator of Mission Directorate, KASA)

IDL 4. The Importance of Space Research in UN COPUOS Activities and COSPAR's Contribution to It

Wednesday, 17 July, 14:15, Room 205, 2F, CON

Driss El Hadani (United Nations Office for Outer Space Affairs, Vienna, Austria)

IDL 5. Our Sparkling Star: The Sun's Magnetic Field, Activity and Variability

Wednesday, 17 July, 14:30, Room 205, 2F, CON

Sami Solanki (Max-Planck-Institut für Sonnensystemforschung, Göttingen, Germany)

IDL 6. The Physics of Neutron Stars

Friday, 19 July, 14:00, Room 205, 2F, CON

Cole Miller (Department of Astronomy, University of Maryland at College Park, USA)

IDL 7. Solar-planetary Environment and its Habitability: Insights from Atmospheric Escape Studies

Friday, 19 July, 14:25, Room 205, 2F, CON

Kanako Seki (Department of Earth and Planetary Science, Graduate School of Science, University of Tokyo, Japan)

Public Lecture

Sunday, 14 July, 15:30 - 18:30, Room 301, 3F, CON

English & Korean (Simultaneous Interpretation provided)

Bringing Mars Sample Back to Earth

Meenakshi Wadhwa (Director, School of Earth and Space Exploration Foundation and Regents Professor Arizona State University, USA)

Encounters with Modern Physics

Samuel C.C. Ting (Tomas D. Cabot Professor of Physics at MIT and 1976 Nobel Laureate in Physics, USA)

Talk Concert on the Moon

SIM, Chae Kyung (Korea Astronomy and Space Science Institute, Korea)

Orbit (Unreal Science Institute, Korea)

Pioneering the Future of Space Industry & Research

Monday, 15 July, 14:00 – 15:00, Auditorium

Dare Mighty Things Together
Laurie Leshin (Director, Jet Propulsion Laboratory, USA)
KAI, Industry's Role in Transforming Space Exploration into Space Economy
Goo-Young Kang (CEO, Korea Aerospace Industries, Ltd., Republic of Korea)
Multiplanetary Human Life Enabler
Jay Kim (CEO, BORYUNG, Republic of Korea)

COSPAR Opening and Award Ceremony

Monday, 15 July, 15:00 – 16:30, Auditorium

Roundtable of Space Agency Leaders

Monday, 15 July, 17:00 – 18:30, Auditorium

Topics:
- Overview of space agency research programs;
- Addressing climate change through space contributions;
- Updates on recent and anticipated planetary and astronomy space missions;
- Opportunities and challenges of emerging private space actors;
- Sustainable use and regulation of outer space and environmental stewardship;
- Role of small satellites in space research, and support to COSPAR's constellation projects.

Participants confirmed to date:
- Pascale Ehrenfreund, COSPAR President, Moderator
- Youngbin Yoon, Administrator, Korea AeroSpace Administration (KASA)
- Ahmad Belhoul Al Falasi, Minister of Education and Chairperson, UAE Space Agency
- Anil Bhardwaj, Director, Physical Research Laboratory (PRL), India
- Li Guoping, Chief Engineer, China National Space Administration (CNSA)
- Hitoshi Kuninaka, Director General, Institute of Space and Astronautical Science (ISAS), Japan Aerospace Exploration Agency (JAXA)
- Pam Melroy, Deputy Administrator, National Aeronautics and Space Administration (NASA)
- Raffaele Mugnuolo, Scientific Directorate, Agenzia Spaziale Italiana (ASI)

Opening Reception

Monday, 15 July, 18:30, Room 301, 3F, CON

The New COSPAR Community-Driven Space-Weather Roadmap: Its Context on the Global Stage

Tuesday, 16 July, 14:00 - 15:00, Room 205, 2F, CON

This special panel discussion will present the high-level summary of the community-driven COSPAR Space-Weather Roadmap highlighting key recommendations across the areas of space-weather impacts, collaboration, future opportunities, and collaborative-working, both within COSPAR, and more globally. This special session is envisaged to have a number of panellists that contributed to the foundations of the updated roadmap as well as panellists representing national agencies and international organisations such as UNOOSA, WMO, and ISES. In addition, ideas and thoughts on achieving the outcomes and recommendations made in the roadmap will be covered in this special session to include the panel Q&A/discussions.

Panellists:

- Masha Kuznetsova – COSPAR ISWAT and PSW Chair
- Joe Westlake – NASA, USA
- Jussi Luntama – ESA
- Shafa Gadimova – UNOOSA
- Mamoru Ishii – ISES
- Jesse Andries – WMO

NASA and Public-Private Partnerships: A Fireside Chat to Share Perspectives on NASA Science

Tuesday, 16 July, 17:00 - 18:30, Room 301, 3F, CON

Join Dr. Nicky Fox, NASA Associate Administrator, Science Mission Directorate, and Mr. Andre' Trotter, VP, Lockheed Martin Space as they discuss ongoing and future public-private partnerships that shape current and future NASA science missions. Speakers will discuss the future of NASA Science including Earth and climate science, astrophysics, heliophysics, planetary science, and biological and physical science in the context of a rapidly evolving space science landscape.

Inclusion, Diversity, Equity, and Accessibility (IDEA) Lunch Panel

Thursday, 18 July, 12:30 - 14:00, Room 301, 3F, CON

"Leveraging Psychological Safety as an IDEA Principle to Advance Scientific Discovery"

Join Leaders from NASA's Jet Propulsion Laboratory and other global experts on the necessity for creating psychologically safe environments to ensure inclusion and open scientific expression. Often our notions of the creation of science are based on the historic "Eureka" moments of a single brilliant individual, be it Einstein, Marie Curie, or Newton. In reality much of science is conducted in teams. And yet, academia does very little to prepare our scientists for team leadership. To create high functioning, high performing teams, a critical component is psychological safety, a term coined by Professor Amy Edmondson of Harvard Business School. Psychological safety occurs when all individuals in the team feel safe to take risks and speak up without fear of shame or reprisal. In space science, some of the biggest "fails" have occurred when there was low psychological safety and team members were afraid to speak up.

The IDEA panel at COSPAR will examine how organizations are working to cultivate psychological safety, how gender, cultural, and social identity differences affect psychological safety, and ways of overcoming those challenges.

Participants:
- Laurie Leshin, JPL Director, USA - Moderator
- Moogega Cooper, JPL, USA
- David Korsmeyer, NASA Ames Research Center, USA
- Young-sil Kwak, KASC, South Korea
- Anna Sabaté, Space Faculty, Singapore
- Mary Snitch, LM Space, USA

COSPAR Committee on Industry Relations Panel Discussion

Thursday, 18 July, 14:00 - 15:00, Room 205, 2F, CON

"Space 2050 – Our Future Shaped by Today's Space Technology Advances"

What will the future of space look like in 2050? What technologies will be required to enable future capabilities in space and how close are we to creating them? Lockheed Martin Vice President, Commercial Civil Space, shares a vision for the future of space and showcases key technologies being developing to expand space missions and humanity beyond our home world. The 2050 vision invites discussion about the future of space in five areas: a "smart" world enabled by ubiquitous communications, extraplanetary operations, space logistics, mission operations command utilizing artificial intelligence and machine learning, and space defense to strengthen 21st Century Security. These areas dive deeper into dynamic mission environments and the emerging technological advancements necessary to operate productively and safely.

Participants confirmed to date:
- Dave Gallagher, Associate Director, Strategic Integration, NASA/Jet Propulsion Laboratory, USA
- Roberto Provera, Thales Alenia Space, Italy
- John Reed, Chief Technologist, ULA, USA
- André Trotter, VP, LM Commercial Civil Space, Moderator, USA
- Ryo Yjiie, CTO, ISpace, Japan

COSPAR Associated Events

A number of org anizations will take advantage of the presence of their members at the COSPAR Assembly to organize scientific, business, or social events. The COSPAR Secretariat encourages all groups organizing Associated Events to make them known so that they can be listed in Assembly materials (web, Call for Papers, Program, app, etc.) as appropriate.

Below please find a list of Associated Events brought to the attention of the Secretariat to date:

International Academy of Astronautics (IAA) Day

Saturday, 13 July 2024, 09:30- 17:00, Room 101, 1F, CON. Open to all participants.

The International Academy of Astronautics will host its regular Academy Day at the COSPAR Scientific Assembly on Saturday, 13 July 2024, 9:30 – 17:00. Updates on current Academy activities will be provided by IAA leaders. The highlight of Academy Day however will be a technical program comprised of four or five invited lectures on the latest results from Earth and space science research. Featured lectures will be presented by renowned scientists in the respective fields of space science including astronomy, Earth science, heliophysics and planetary science. Lectures will be tailored for a scientifically savvy audience most of whom are not experts in the particular field of the specific lectures.

The IAA invites COSPAR 2024 participants to register online at their earliest convenience and to return the registration form in order to know the details of participation such as guests or special requests. There will be strictly limited seating, and registration will be on a first come, first serve basis. The Scientific Program and the registration form are available online at
https://iaaspace.org/product/iaa-academy-day-busan-13-july-2024/

The Korean Pathfinder Lunar Orbiter Mission: Design, Development, Launch, Operation and Science Topics

Saturday, 13 July 2024, 10:00-12:00 (Part I), 16:00-18:00 (Part II), Room 105, 1F, CON. Open to all participants.

The Korea Pathfinder Lunar Orbiter (KPLO or Danuri in local language) is the first space exploration mission of South Korea. KPLO was launched on August 2023 using a Falcon-9 rocket. With this special event at COSPAR 2024 we will provide a short history of the KPLO mission itself including design, development, international cooperation, launch and operation at mission orbit. In addition, we will highlight some details of the science goals of the KPLO mission for each instrument.

International Living With a Star (ILWS) Plenary Meeting

Sunday, 14 July 2024, 09:00-17:00, Room 322, 3F, EC2. Open to all participants.

Workshop on Research and Industry for Space Security

Tuesday, 16 July 2024, 10:00-12:00, Room 322, 3F, EC2. Open to all participants.

This event will focus on the collaboration between Space Research Community and Space Industry to make the synergy in Space Science, Space Industry and Space Security.

Speakers:

- Jim Graf (JPL)
- Jihong Kim (KAI)
- Dongkeun Jeon (Quantum Aero)
- Ian Christensen (Secure World Foundation)
- Ee-Eul Kim (Satrec Initiative)
- Jeremy Hallett (Space Industry Association of Australia)

International Agency Space Weather Research and Mission Coordination

Wednesday, 17 July 2024, 13:45-15:30, Room 315, 3F, EC1

This session will begin with short, invited presentations by various space agencies that fund space weather research missions, followed by a focused discussion. The discussion will be centered on the need and characteristics, including membership and scope, of a coordinating body for those agencies that fund space weather applied research and missions. This body would provide a forum to share plans and foster discussions leading to possible collaborations that advance understanding and enable progress of space weather operations and applications. This would not be a decisional body and it would complement, not replace, the current space weather operational coordination groups.

IOCCG Training Session

Thursday, 18 July 2024, 09:00-12:30, Room 107, 1F, CON. Open to all participants.

KIOST, on behalf of IOCCG and with support from the Korea Hydrographic and Oceanographic Agency (KHOA), will be conducting an in-person training course on the first geostationary ocean colour imager, GOCI Toolbox (GTBX) on Snap, in Room 107, Convention Hall on Thursday 18 July from 9:00 am – 12:30 pm local time. A personal laptop is required for the training. Secure your space for the course here. An exhibition on GOCI-II data will also be available from 14 – 18 July in the Convention Hall. Both are open to all meeting participants.

Governance of Space Weather, organized by Korean Space Weather Center (KSWC)

Thursday 18 July, 17:00-18:30, Room 315, 3F, EC1

Presentation and discussion of the status of how space weather support the national space matter including space research & development, space program, space economic and space policy. This meeting is targeted to be Director-level of the space weather center and director/designee responsible for space policy.

Revision of the NOAA Space Weather Scales

Friday, 19 July 2024, 15:00-16:30, Room 218, 2F, EC1

In 1999, NOAA introduced the Space Weather Scales to communicate to the general public current and future space weather conditions and possible effects. Unchanged since 1999, the Scales are used worldwide to initiate hazard preparedness and mitigation operations. However, space weather capabilities, user base, and user needs have grown and changed dramatically over the last two decades, and the scales no longer meet the needs of the end-user community. Space weather is a global challenge requiring a coordinated global response and consistency and clarity in messaging during space weather storms is imperative for situational awareness and preparedness. Therefore, NOAA has initiated an effort to assess and revise the space weather scales as appropriate, and seeks the input from interested parties around the world.

ISES (International Space Environment Service) Meeting

Saturday, 20 - Sunday, 21 July 2024, Paradise Hotel, Closed meeting.

Institute for Basic Science (IBS) Conference on Planetary Science and Space Exploration (PSSE)

Monday, 22 - Thursday, 25 July 2024, IBS headquarters, Daejeon, South Korea. Signed up required. (https://www.ibs.re.kr/psse2024/)

Planetary Science and Space Exploration (PSSE) aims to share the latest findings, and recent and upcoming space missions, providing exciting scientific targets for future studies. PSSE welcomes talks and posters on recent results, new methods and facilities, and ongoing modeling efforts that suggest diverse and comparative scientific approaches for general planetary scientists.

PSSE is held immediately after COSPAR. Each session combines associated planetary science topics, providing excellent opportunities for participants to get an overview of the research trends. This is different from COSPAR, which has specific topics in parallel, resulting in situations where participants likely need to choose to attend one session at a time.

Satellite Events

The 14th Space Weather Forum

Tuesday, 16 July 2024, 14:00 - 18:00, Room 101, 1F, CON

DRB Space Challenge Workshop

Tuesday, 16 July 2024, 14:00 - 16:00, Room 103, 1F, CON

Awards and Medals 2024

COSPAR Space Science Award

For outstanding contributions to space science in the fields covered by the Committee on Space Research:

Rosine Lallement (France)

COSPAR International Cooperation Medal

For significant contributions to the promotion of international scientific cooperation in the field of space research:

Dieter Bilitza (USA)

COSPAR William Nordberg Medal

For distinguished contributions to the application of space science in a field covered by COSPAR:

Matt Griffin (United Kingdom)

Kanako Seki (Japan)

COSPAR Massey Award

For outstanding contributions to the development of space research, in which a leadership role is of particular importance:

Prahlad Chandra Agrawal (India)

COSPAR Distinguished Service Medal

Recognizing extraordinary services rendered to COSPAR over many years:

Gerhard Kminek (ESA)

Vikram Sarabhai Medal

For outstanding contributions to space research in developing countries (awarded jointly with the Indian Space Research Organization):

Anil Bhardwaj (India)

Jeoujang Jaw Award

For distinguished pioneering contributions to promoting space research, establishing new space science research branches and founding new exploration programs (awarded jointly with the Chinese Academy of Sciences):

Daniel Baker (USA)

Outstanding Paper Award for Young Scientists

(published in *Advances in Space Research or Life Sciences in Space Research*)

2022 - Advances in Space Research

Samet Aksoy
Federico De Grossi
Yunfeng Gao
Jiyoon Hwang
Chalachew Lingerew Bizuneh
Jennifer Mills
Alena Probst
Leyuan Sun
Rene Vazquez-Ontiveros
Kun Wang
Hui Xu
Bowen Zhan
Chunyuan Zhou
Yuan Chai
Mohammad Firozjaei
Rajat Garg
Robin Josepha Kwik
Pablo Machuca
Alexander Nickerson
Sovan Saha
Jianning Tang
Christine Verbeke
Tongge Wen
Daochun Yu
Dongsheng Zhao

2022 - Life Sciences in Space Research

Deriesha Gaines
Zeinab Ibrahim

2023 - Advances in Space Research

Daphine Ayebare
Z.Z. Chen
Yue Dong
Chenrui Fu
Lorenzo Giudici
Md Hasanuzzaman
Yangfei Hou
Koki Kimura
Tianjun Liu
Jared M Long-Fox
Shuaiyang Qi
Emma Stevenson
Andrea Viale
Zhihao Wang
Xuan Xie
Deying Yu
Danica Žilková
Julie Barnum
Joshua Critchley-Marrows
Shrouti Dutta
François Ginisty
Xiaoqing Han
Angkita Hazarika
Meiling Hu
Vinay Kumar Gautam
Xiang Liu
Smriti Nandan Paul
Andrea Scorsoglio
Christine Verbeke
Shubham Vyas
Jianfa Wu
Bingbing Xu
Naiquan Zheng

2023 - Life Sciences in Space Research

Fang Chen
Yueying Lu

Program at a Glance

Scientific Session | Special Session | Poster Session | Social Program | Associated Events

Time	July 13 (Sat.)	July 14 (Sun.)	July 15 (Mon.)	July 16 (Tue.)	July 17 (Wed.)	July 18 (Thu.)	July 19 (Fri.)	July 20 (Sat.)	July 21 (Sun.)
08:00 ~ 09:00	Registration Desk Opens	Registration Desk Opens	Registration Desk Opens	Registration Desk Opens	Registration Desk Opens	Registration Desk Opens	Registration Desk Opens	Registration Desk Opens	Social Tours
09:00 ~ 09:30	IAA Day	Scientific Session #1	Scientific Session #5	Scientific Session #7	Scientific Session #11	Scientific Session #15	Scientific Session #19	Scientific Session #23	
09:30 ~ 10:00									
10:00 ~ 10:30									
10:30 ~ 11:00		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11:00 ~ 11:30		Scientific Session #2	Scientific Session #6	Scientific Session #8	Scientific Session #12	Scientific Session #16	Scientific Session #20	Scientific Session #24	
11:30 ~ 12:00									
12:00 ~ 12:30									
12:30 ~ 13:00		Lunch Break	Lunch Break Business Meeting	Lunch Break Business Meeting	Lunch Break Business Meeting	Lunch Break Business Meetings IDEA Lunch	Lunch Break	Closing Ceremony	
13:00 ~ 13:30									
13:30 ~ 14:00									
14:00 ~ 14:30		IDL #1 & 2	Pioneering the Future of Space Industry & Research	COSPAR Space Weather Panel Roadmap Discussion	IDL #3,4 & 5	CIR Panel Discussion	IDL #6 & 7		
14:30 ~ 15:00	Special Performance Event for All							COSPAR Council Meeting #2 (Closed)	
15:00 ~ 15:30		Scientific Session #3	COSPAR Opening and Award Ceremony	Scientific Session #9	Scientific Session #13	Scientific Session #17	Scientific Session #21		
15:30 ~ 16:00									
16:00 ~ 16:30	COSPAR Council Meeting #1 (Closed)								
16:30 ~ 17:00		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
17:00 ~ 17:30		Scientific Session #4	Roundtable of Space Agency Leaders	Mixed Session #1 (Scientific Session #10 Poster Session #1)	Mixed Session #2 (Scientific Session #14 Poster Session #2)	Mixed Session #3 (Scientific Session #18 Poster Session #3)	Scientific Session #22		
17:30 ~ 18:00									
18:00 ~ 18:30									
18:30 ~ 19:00			Opening Reception		Young Researchers' Networking Night	COSPAR Council Evening (Closed)	Banquet		
19:00 ~ 19:30	IAA Dinner								
19:30 ~ 20:00									
20:00 ~ 20:30									

Exhibition (July 14 ~ July 16)

Exhibition & Accompanying Person's Tour (July 16 ~ July 18)

Technical Tour for Sponsors / Exhibitors (July 18 ~ July 19)

Exhibition for Public (July 14)

Scientific Event Schedule

CON: Convention Hall | EC1: Exhibition Center 1 | A | B | C | D | E | F | G | H | IR | P | TG

	Sunday, 14 July				Monday, 15 July		Tuesday, 16 July				Wednesday, 17 July				Thursday, 18 July				Friday, 19 July				Saturday, 20 July	
	09:00~10:30	11:00~12:30	15:00~16:30	17:00~18:30	09:00~10:30	11:00~12:30	09:00~10:30	11:00~12:30	15:00~16:30	17:00~18:30	09:00~10:30	11:00~12:30	15:00~16:30	17:00~18:30	09:00~10:30	11:00~12:30	15:00~16:30	17:00~18:30	09:00~10:30	11:00~12:30	15:00~16:30	17:00~18:30	09:00~10:30	11:00~12:30
CON-101 (1F)	D1.1						D3.4				D3.4		D2.2		D2.2				D1.7					
CON-102 (1F)	D2.3										D2.4				D2.5				D3.5				D3.6	
CON-103 (1F)	D3.1				D3.2						D1.2				D1.2	D1.3							D3.8	
CON-104 (1F)	D2.1						D1.4	D1.6	TGII.1		D1.6				D3.3				D3.7				D1.5	
CON-105 (1F)	PSB.1						E2.3								PSB.2	E1.19			E1.10					
CON-106 (1F)	E2.1										E2.2				TGCSS.1				E2.2				E2.7	
CON-107 (1F)	E1.9										E1.7						E1.7		E1.7					
CON-108 (1F)	E1.17				E1.11						E1.11				POIS.1		E1.5		E1.5					
CON-109 (1F)		E1.14			E1.16						E1.13				PSSH.1		E1.13		E1.13					
CON-110 (1F)	E1.6										E1.3				PRBEM.2			PRBEM.3	E2.6					
CON-201 (2F)	E2.4						E1.8				E1.8		PRBEM.1		PIR.1				E1.18				E1.4	
CON-202 (2F)	E1.12						E1.2										E1.2		E1.15					
CON-203 (2F)	E2.5						E1.19						IR.1						E1.19					
CON-205 (2F)	E1.1								D0.1		E1.1		B0.1		E0.1		E1.1							
CON-301 (3F)										FC.1														
EC1-211 (2F)		F1.2			F0.1		F1.1	F1.2			F5.1				F4.3		F5.1		F5.2					
EC1-212 (2F)	F2.1	F2.2					F0.2	F2.1			F2.2		F4.2		F3.2				F2.4					
EC1-213 (2F)	F3.1				C3.1		F3.1				F2.3				F3.1	F3.4			F3.4					
EC1-214 (2F)	PPP.3				PEX.1		PPP.1				PPP.2				B4.2				B4.2					
EC1-215 (2F)	B1.1										B1.1				B6.1				B0.3				B3.3	
EC1-216 (2F)	B0.2				B5.1		B4.1	H0.3			B3.2		H0.6		H0.2		H0.1		H0.4		H0.5			
EC1-217 (2F)	B3.1										PSD.1				PSD.1		PSD.2		B4.4		B4.3			
EC1-218 (2F)	B5.2	B5.3			PE.2		PEDAS.1				PEDAS.1				PEDAS.1				PEX.2					
EC1-311 (3F)		C0.2						C0.1			C5.1				C2.1				C4.1					
EC1-312 (3F)	F4.1				C3.2						C4.2		C1.1		C1.1									
EC1-313 (3F)		C1.3									C1.4				C1.4				C1.4		C1.2			
EC1-314 (3F)	PE.2				PSW.2	PSW.6	PSW.3	PE.1			PSW.3		PSW.4		PE.1									
EC1-315 (3F)		PSW.10			PSW.9		PSW.5				PSW.7					PSW.7			PSW.8	PSW.1				
EC1-316 (3F)	A0.1				A2.1						A1.1					A0.5			A0.4		A0.6			
EC1-317 (3F)	G0.1	G0.5			G0.2			G0.3	G0.4		PCB.1		PCB.2		A3.1			TGIGSP.1	A0.2					
EC1-Hall 1(1F)			Poster Session / Exhibition																					
National Science Museum											PE.1													

Overview – Event Numbers and Titles

EVENT	TITLE
A0.1	What Are the Remaining Scientific Challenges above Equatorial Regions? How Small Satellites Could Fill the Knowledge Gap
A0.2	Land-Ocean-Atmosphere Interactions
A0.4	Earth Observations for Disaster Mitigation
A0.5	Synergy of Multiple Satellites to Achieve Carbon Neutrality across the Globe
A0.6	The Connections between Earth's Lower and Upper Atmosphere
A1.1	Space-based and Sub-orbital Observations of Atmospheric Physics and Chemistry: Critical Information on the Health of our Planet
A2.1	Science and Applications Enabled by Satellite Missions for Global Ocean, Inland Seas, and Cryosphere
A3.1	New Technology in Earth Observation and Applications for Sustainable Land Ecosystem
B0.1	Planetary Science Highlights
B0.2	Instrumentation for Planetary Exploration
B0.3	Technology for Planetary Exploration
B1.1	Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense
B3.1	Lunar Science and Exploration
B3.2	New Planetary Science Opportunities and Results Enabled by Commercial Infrastructure and Venture Capital
B3.3	Life Science in Space and on the Moon
B4.1	Mercury Science and Exploration
B4.2	Venus Science and Exploration
B4.3	Mars Science Results
B4.4	Forward Planning for the Exploration of Mars
B5.1	Jupiter, the Galilean Satellites, Rings and Magnetospheres: Juno Results
B5.2	Gas Giants and Icy Giants with their Systems
B5.3	Ocean Worlds: Past, Present, and Future
B6.1_E4.1	Exoplanet Detection and Characterisation: Current Research, Future Opportunities and the Search for Life Outside the Solar System
C0.1	International Standards for Space Environment
C0.2	Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies
C1.1	Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies
C1.2	Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras
C1.3	Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources
C1.4	Space Weather and Earth's Atmosphere-Ionosphere
C2.1	Gravity Waves and Turbulence in the Middle Atmosphere and Lower Ionosphere
C3.1	Planetary Atmospheres
C3.2	Planetary Upper Atmospheres, Ionospheres and Magnetospheres
C4.1	International Reference Ionosphere: Improvements, Validation, and Applications
C4.2	Development of First-principles and Empirical Models Related to the COSPAR International Reference Atmosphere
C5.1_D4.1	Dust Observations in Space and Laboratory Experiments
D0.1	Overview Session Commission D
D1.1	Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres
D1.2	Large Scale Structure of Heliosphere and its Physical Drivers
D1.3	Magneto-plasma Structures, Streams and Flows in the Heliosphere
D1.4	Suprathermal and Pickup Ions Throughout the Heliosphere
D1.5	Turbulence in the Heliosphere from the Solar Corona to the Very Local Interstellar Medium
D1.6	Understanding and Predicting Solar Energetic Particle Events Across the Heliosphere
D1.7	Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays
D2.1_E3.1	Off-the-Sun-Earth-Line(OSEL) Missions
D2.2_E3.2	Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects
D2.3_E3.3	Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies
D2.4_E3.4	STEREO's Journey around the Sun: An Era of Single and Multi-spacecraft Observations from 2007 to 2024
D2.5_E3.5	Impact of the Inhomogeneous Solar Corona and Solar Wind on CME Evolution

EVENT	TITLE
D3.1	Highlights of Magnetospheric Plasma Physics
D3.2	Cross-scale Coupling and Multi-point Observations in the Solar Wind and Magnetosphere
D3.3	Origin of Non-thermal Distributions in Space Plasmas and their Role in Wave Generation and Heating / Acceleration of Particles
D3.4	Particle Transport Acceleration and Loss in the Earth and Planetary Magnetospheres
D3.5	Role of Mesoscale Coupling as the Driver of System Level Storm and Substorm Dynamics in Geospace
D3.6	CubeSat and Small Satellite Technology Addressing Magnetospheric Challenges
D3.7	Machine Learning and Data Sciences
D3.8	Dayside Magnetosphere Interactions
C5.1_D4.1	Dust Observations in Space and Laboratory Experiments
E0.1	Scientific Commission E Overview Event
E1.1	Origin of Cosmic Rays
E1.2	Advanced Timing-spectral Polarimetric Analysis and Modeling of Accreting Black Holes and Neutron Stars
E1.3	Space-ground Scientific and Exploitation Synergies and Challenges
E1.4	Spectral Mapping Surveys of the Universe
E1.5	Illuminating Gravitational Waves and their Environments
E1.6	Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations
E1.7	Black Hole Astrophysics: Theory and Simulations Confront Observations
E1.8	Solving the Accretion/Ejection Puzzle in AGN: Synergies and Clashes in the Central kpc
E1.9	Spectral/Timing Properties of AGN: Theory and Observations
E1.10	Extreme Accretion Events in Supermassive Black Holes
E1.11	Coevolution between High-redshift Quasars and Galaxies in the Era of JWST
E1.12	Gamma-ray Bursts in the Next Decade
E1.13	Observations and Prospects for X-ray Polarimetry
E1.14	Multi-wavelength Fast Variability across Mass Scales: from Neutron Stars to Supermassive Black Holes
E1.15	To Flow in or to Flow out, That is the Question of Black-hole X-ray Binaries
E1.16	High Mass X-ray Binaries: A New View on Accretion and Reprocessing
E1.17	Constraining the Behaviour of Ultra-dense Matter Using Weakly Magnetised Neutron Stars
E1.18	Plasma at the Inner Dozen of Gravitational Radii: from Dissipation to Radiation in Accreting Black Hole Systems
E1.19	Cataclysmic Variables and Related Systems as Probes of Accretion, Binary Evolution and Thermo-nuclear Explosions
E2.1	Energetics and Dynamics in the Quiet Solar Atmosphere and Beyond
E2.2	Energy and Mass Transport of Small Scales in the Low Solar Atmosphere
E2.3	Plasma and Magnetic Field Coupling in Solar Prominences
E2.4	Application of Machine Learning Techniques in Solar and Heliospheric Physics
E2.5	Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind
E2.6	Developments and Applications of the Solar Magnetic Field Modelling
E2.7	Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology
D2.1_E3.1	Off-the-Sun-Earth-Line(OSEL) Missions
D2.2_E3.2	Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects
D2.3_E3.3	Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies
D2.4_E3.4	STEREO's Journey around the Sun: An Era of Single and Multi-spacecraft Observations from 2007 to 2024
D2.5_E3.5	Impact of the Inhomogeneous Solar Corona and Solar wind on CME Evolution
B6.1_E4.1	Exoplanet Detection and Characterisation: Current Research, Future 0pportunities and the Search for Life Outside the Solar System
F0.1	Joint Commission F Symposium
F0.2	International Life Support Panel
F1.1	Gravity Perception and Response in Plants and Fungi: Ground and Space Studies
F1.2	Space Microgravity Environment Utilization
F2.1	Biological Effects of Space Radiation and Co-stressors
F2.2	Enabling Human Space Exploration through Research on Risks and Countermeasures to Space Radiation Exposure
F2.3	Space Radiations: Dosimetric Measurements and Related Models and Detector Development
F2.4	Genetic Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight
F2.5	Impact of Space Flight Stressors on Neural Network Functionality
F3.1	Chemical Complexity of Molecular Universe

EVENT	TITLE
F3.2	Astrobiology and Exploration
F3.4	Interstellar Organic Molecules in the Age of JWST and ALMA
F4.1	Advances in Life Support Technologies and Test Bed Facilities
F4.2	Influence of Spaceflight Environments on Biological Systems
F4.3	Space Food and Nutrition
F5.1	Molecular, Cellular and Physiologica Changes to Spaceflight and Ground Studies
F5.2	Exploring the Space Exposome and Approaches for Assessing Spaceflight-Associated Human Health Risks
G0.1	Gravitational Effects on Physico-Chemical Processes
G0.2	Drop Tower Days
G0.3	Influence of Free Space Environoment on the Behavior of Materials
G0.4	Advanced Materials and their Technologies for Space Exploration
G0.5	GravityNEXT
H0.1	Commission H Highlight Talks
H0.2	Gravitation, Dark Energy and Matter
H0.3	Enabling Technologies for Fundamental Physics in Space
H0.4	Gravitational Waves
H0.5	Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics
H0.6	Cold Atoms
IR.1	Engaging Global Space Industry Stakeholders
PCB.1	Capacity Building
PCB.2	Small Satellites for Capacity Building
PE.1	Space Explorers in Schools - Empowering the Next Generation of Researchers
PE.2	Current Trends, Initiatives and Research in Education and Outreach for Space Sciences
PEDAS.1	A Sustainable Space Exploration: From the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments
PEX.1	Integrating Environmental Ethics into Planetary Exploration and Use
PEX.2	International and Multiple Stakeholders Cooperation in the Sustainable Exploration and Utilisation of the Moon, Near Earth Asteroids, Mars, and Other Celestial Bodies
PIR.1	Near-term Exploration of the Interstellar Medium: Progress and Status
POIS.1	Quantum Computing
PPP.1	Planetary Protection Policy
PPP.2	Planetary Protection Mission Implementation and Status
PPP.3	Planetary Protection Research and Development
PRBEM.1	Standards and Tools for Radiation Measurements and Supporting Data
PRBEM.2	Radiation Environment across the Solar System: Observations, Measurements, and Models for Current and Future Space Missions
PRBEM.3	Development and Validation of Numerical and Empirical Radiation Belts Models
PSB.1	Scientific Ballooning: Recent Developments in Technology and Instrumentation
PSB.2	Low-Cost Balloon Flights as a Learning Tool
PSD.1	Satellite Dynamics: New Developments and Challenges for Earth and Solar System Sciences
PSD.2	Precision Orbit and Attitude Determination of Small Satellites, CubeSats, and Constellation and their Scientific Applications
PSSH.1	The Challenges of Space Activities from the Perspective of Human and Social Sciences
PSW.1	Parameterising Performance Assessment within the Space Weather Domain: Validation and Verification at Different Stages in the R2O2R Process
PSW.2	Space Weather at Planetary Bodies in the Solar System
PSW.3	Preparation for a New Ionospheric Space Weather Scale for Trans-ionospheric Radio wave Propagation
PSW.4	Information Architecture and Innovative Solutions in Space Weather. Interfacing and Coordination between Different Efforts on Standardization
PSW.5	Community-Driven COSPAR Space Weather Roadmap
PSW.6	Improving Predictive Capabilities of Radiation Environment in Support of Human Exploration and Robotic Missions
PSW.7	International Space Weather Cooperation
PSW.8	The Geomagnetic Environment Leading to GIC Impacts on Power-infrastructure
PSW.9	International Space Weather Missions and Coordination: Current and Planned Missions
PSW.10	Radio Observations for Space Weather
TGCSS.1	Small Spacecraft - Big Science
TGIGSP.1	ISTPNext: International Coordination in Heliophysics
TGII.1	IDEA as a Transformative Global Issue: Developing Strategies to Advance Positive Systemic Change in STEM Education and Careers Across the International Scientific Technical Community

Matrix of Events of Particular Interdisciplinary Interest

	A	B	C	D	E	F	G	H	IR	PCB	PE	PEDAS	PEX	PIR	POIS	PPP	PRBEM	PSB	PSD	PSSH	PSW	TGCSS	TGIGSP	TGII
A0.1																								
A0.2		●																						
A0.4																				●				
A0.5																				●				
A0.6			●																					
A1.1																								
A2.1		●																						
A3.1																				●				
B0.1																								
B0.2																								
B0.3																								
B1.1													●											
B3.1					●	●						●				●			●					
B3.2													●											
B3.3						●							●			●								
B4.1												●												
B4.2												●												
B4.3												●									●			
B4.4												●												
B5.1																								
B5.2																								
B5.3																								
B6.1					●																			
C0.1												●									●			
C0.2	●																							
C1.1	●																							
C1.2																					●			
C1.3																					●			
C1.4	●											●									●			
C2.1	●																				●			
C3.1		●																						
C3.2		●																			●			

	A	B	C	D	E	F	G	H	IR	PCB	PE	PEDAS	PEX	PIR	POIS	PPP	PRBEM	PSB	PSD	PSSH	PSW	TGCSS	TGIGSP	TGII
C4.1																								
C4.2												●												
C5.1				●																				
D0.1					●																●			
D1.1					●																●			
D1.2					●																●			
D1.3					●																●			
D1.4					●																●			
D1.5					●																●			
D1.6					●																●			
D1.7																					●			
D2.1					●																			
D2.2		●			●																●			
D2.3					●																			
D2.4					●																			
D2.5					●																●			
D3.1																								
D3.2																								
D3.3																								
D3.4		●															●							
D3.5																					●			
D3.6																								
D3.7		●	●														●				●			
D3.8																								
D4.1			●																					
E0.1																								
E1.1																								
E1.2																								
E1.3																								
E1.4																								
E1.5								●																
E1.6								●																
E1.7								●																
E1.8																								

	A	B	C	D	E	F	G	H	IR	PCB	PE	PEDAS	PEX	PIR	POIS	PPP	PRBEM	PSB	PSD	PSSH	PSW	TGCSS	TGIGSP	TGII
E1.9																								
E1.10								●																
E1.11																								
E1.12																								
E1.13																								
E1.14																								
E1.15																								
E1.16																								
E1.17								●																
E1.18																								
E1.19																								
E2.1				●																				
E2.2				●																	●			
E2.3				●																	●			
E2.4				●																	●			
E2.5				●																				
E2.6				●																				
E2.7				●																				
E3.1				●																				
E3.2				●																				
E3.3				●																				
E3.4				●																				
E3.5				●																				
E4.1		●																						
F0.1																								
F0.2																								
F1.1																								
F1.2																								
F2.1																								
F2.2																					●			
F2.3																								
F2.4																								
F3.1		●											●											
F3.2		●											●											

	A	B	C	D	E	F	G	H	IR	PCB	PE	PEDAS	PEX	PIR	POIS	PPP	PRBEM	PSB	PSD	PSSH	PSW	TGCSS	TGIGSP	TGII
F3.4		●											●											
F4.1																								
F4.2																								
F4.3																								
F5.1																								
F5.2																								
G0.1		●																						
G0.2		●																						
G0.3		●																						
G0.4		●																						
G0.5									●															
H0.1					●																			
H0.2					●																			
H0.3					●																			
H0.4					●																			
H0.5																								
H0.6																								
PCB.1																								
PCB.2																								
PE.1		●			●	●				●		●	●			●				●	●			●
PE.2		●			●	●				●		●	●			●				●	●			●
PEDAS.1		●	●										●			●			●		●			
PEX.1		●										●				●				●				
PEX.2		●				●																		
PIR.1		●																						
POIS.1																					●			
PPP.1		●			●	●						●	●											
PPP.2		●				●							●											
PPP.3		●				●							●											
PRBEM.1				●																	●			
PRBEM.2			●	●																	●			
PRBEM.3																					●			
PSB.1		●			●																			
PSB.2					●																			

	A	B	C	D	E	F	G	H	IR	PCB	PE	PEDAS	PEX	PIR	POIS	PPP	PRBEM	PSB	PSD	PSSH	PSW	TGCSS	TGIGSP	TGII
PSD.1		●										●												
PSD.2												●										●		
PSSH.1	●					●					●	●	●			●								●
PSW.1																●								
PSW.2		●															●							
PSW.3			●																					
PSW.4			●											●										
PSW.5		●	●				●							●		●	●						●	
PSW.6		●		●										●			●							
PSW.7							●					●											●	
PSW.8														●										
PSW.9																							●	
PSW.10																	●							
TGCSS.1																								
TGIGSP.1																								
TGII.1											●									●				

Overview – Scientific Events by Scientific Commission / Panel/Task Group

SUNDAY (14 JULY)	MONDAY (15 JULY)	TUES. – SAT. (16 – 20 JULY)	ROOM KEY
09:00 - 10:30 Sessions	09:00 - 10:30 Sessions	09:00 - 10:30 Sessions	CON = Convention Hall EC1 = Exhibition Center 1
10:30 - 11:00 Break	10:30 - 11:00 Break	10:30 - 11:00 Break	
11:00 - 12:30 Sessions	11:00 - 12:30 Sessions	11:00 - 12:30 Sessions	
12:30 - 14:00 Lunch	12:30 - 14:00 - Lunch - SC/Panel/TG Business Mtgs.	12:30 - 14:00 - Lunch - SC/P/TG Business Meetings (Tues. – Fri.) - IDEA Lunch (Thursday) - Closing Ceremony (Friday)	
14:00 - 15:00 Interdisciplinary Lecture	14:00 - 15:00 Plenary Panel	14:00 - 15:00 - Plenary Panel (Tuesday) - Interdisc. Lect (Wed./Fri.) - Plenary Panel (Thurs.)	
15:00 - 16:30 Sessions	15:00 - 16:30 Opening / Awards 1	15:00 - 16:30 Sessions	
16:30 - 17:00 Break	16:30 - 17:00 Break	16:30 - 17:00 Break	
15:30 - 18:30 Public Lecture	17:00 - 18:30 Space Agency Roundtable	17:00 – 18:30 - Mixed Scientific / Poster Sessions (Tues. - Thurs) - Sessions (Friday)	
17:00 - 18:30 Sessions	18:30 - 20:30 Opening Reception / Awards 2	18:30 – 20:30 - Young Researchers' Networking Night (Wed.) - Banquet (Friday)	

SCIENTIFIC COMMISSION A

EVENT	SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY		ROOM
	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	
A0.1	■	■	■	■											EC1-316
A0.2											■	■	■	■	EC1-317
A0.4											■	■	■		EC1-316
A0.5									■	■					EC1-316
A0.6													■		EC1-316
A1.1							■	■	■	■	■				EC1-316
A2.1			■	■	■	■									EC1-316
A3.1									■	■	■				EC1-317

SCIENTIFIC COMMISSION B

EVENT	SUNDAY				MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY				SATURDAY				ROOM
	AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		
B0.1															■	■													CON-205
B0.2	■	■	■	■																									EC1-216
B0.3																					■	■	■	■					EC1-215
B1.1	■	■	■	■	■	■			■	■	■		■	■	■														EC1-215
B2.1																													
B3.1	■	■	■	■	■	■			■	■	■	■																	EC1-217
B3.2													■	■															EC1-216
B3.3																									■	■			EC1-215
B4.1										■																			EC1-216
B4.2																	■	■	■		■	■	■	■					EC1-214
B4.3																							■	■	■				EC1-217
B4.4																					■	■							EC1-217
B5.1					■	■			■																				EC1-216
B5.2	■	■																											EC1-218
B5.3			■	■																									EC1-218
B6.1_E4.1																	■	■	■										EC1-215

SCIENTIFIC COMMISSION C

EVENT	SUNDAY				MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY				SATURDAY				ROOM
	AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		
C0.1										■	■	■																	EC1-311
C0.2		■	■	■	■	■			■																				EC1-311
C1.1															■		■	■	■	■	■	■	■	■	■	■			EC1-312
C1.2																							■	■	■	■			EC1-313
C1.3			■	■	■	■			■	■	■																		EC1-313
C1.4													■	■	■		■	■	■		■	■							EC1-313
C2.1																	■	■	■	■									EC1-311
C3.1					■	■																							EC1-213
C3.2					■	■			■	■	■	■																	EC1-312
C4.1																					■	■	■	■	■	■			EC1-311
C4.2													■	■															EC1-312
C5.1_D4.1													■	■	■														EC1-311

SCIENTIFIC COMMISSION D

EVENT	SUNDAY				MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY				SATURDAY				ROOM
	AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		
D0.1											■	■																	CON-205
D1.1	■	■	■	■	■	■																							CON-101
D1.2													■	■	■		■												CON-103
D1.3																		■	■	■	■	■	■	■					CON-103
D1.4									■																				CON-104
D1.5																									■	■			CON-104
D1.6										■			■	■	■														CON-104
D1.7																							■	■	■				CON-101
D2.1_E3.1	■	■	■	■	■	■																							CON-104
D2.2_E3.2															■		■	■	■	■	■	■	■						CON-101
D2.3_E3.3	■	■	■	■	■	■			■	■																			CON-102
D2.4_E3.4													■	■	■														CON-102
D2.5_E3.5																	■	■	■	■									CON-102
D3.1	■	■	■	■																									CON-103
D3.2					■	■			■	■																			CON-103
D3.3																	■	■	■	■									CON-104
D3.4									■	■			■	■															CON-101
D3.5																					■	■	■						CON-102
D3.6																									■	■			CON-102
D3.7																					■	■	■	■					CON-104
D3.8																									■	■			CON-103
C5.1_D4.1													■	■	■														EC1-311

SCIENTIFIC COMMISSION E

EVENT	SUNDAY				MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY				SATURDAY				ROOM
	AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		
E0.1																	■	■											CON-205
E1.1	■	■	■	■	■	■			■	■			■	■					■	■	■	■	■	■	■	■			CON-205
E1.2									■	■	■	■	■	■	■				■										CON-202
E1.3													■	■	■														CON-110
E1.4																									■	■			CON-201
E1.5																			■		■	■	■	■	■	■			CON-108
E1.6	■	■	■	■	■	■			■	■	■																		CON-110
E1.7													■	■	■				■		■	■	■	■	■	■			CON-107
E1.8									■	■	■		■	■															CON-201
E1.9	■	■	■	■	■	■			■	■																			CON-107
E1.10																					■	■	■	■	■				CON-105
E1.11					■	■			■	■	■		■	■	■														CON-108
E1.12	■	■	■	■	■	■																							CON-202
E1.13													■	■	■				■		■	■	■	■	■	■			CON-109
E1.14		■	■	■																									CON-109
E1.15																					■	■	■	■	■	■			CON-202
E1.16					■	■			■	■	■																		CON-109
E1.17	■	■	■	■																									CON-108
E1.18																					■	■	■	■					CON-201
E1.19																			■	■									CON-105
E1.19									■	■	■	■	■	■							■	■	■						CON-203
E2.1	■	■	■	■	■	■			■	■	■																		CON-106
E2.2													■	■	■						■	■	■	■					CON-106
E2.3										■	■	■	■	■	■	■													CON-105
E2.4	■	■	■	■	■	■																							CON-201
E2.5	■	■	■	■	■	■																							CON-203
E2.6																						■	■	■	■	■			CON-110
E2.7																									■	■			CON-106
D2.1_E3.1	■	■	■	■	■	■																							CON-104
D2.2_E3.2															■		■	■	■	■	■	■	■						CON-101
D2.3_E3.3	■	■	■	■	■	■			■	■																			CON-102
D2.4_E3.4													■	■	■														CON-102
D2.5_E3.5																	■	■	■	■									CON-102
B6.1_E4.1																	■	■	■										EC1-215

SCIENTIFIC COMMISSION F

EVENT	SUNDAY				MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY				SATURDAY				ROOM
	AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		
F0.1					■	■																							EC1-211
F0.2									■																				EC1-212
F1.1									■																				EC1-211
F1.2			■	■						■	■																		EC1-211
F2.1	■	■								■	■																		EC1-212
F2.2			■	■									■	■															EC1-212
F2.3													■	■	■														EC1-213
F2.4																					■	■	■	■					EC1-212
F3.1	■	■	■	■					■	■	■						■												EC1-213
F3.2																	■	■	■										EC1-212
F3.4																		■	■		■	■	■	■	■	■			EC1-213
F4.1	■	■	■	■																									EC1-312
F4.2															■	■													EC1-212
F4.3																	■	■											EC1-211
F5.1													■	■	■				■										EC1-211
F5.2																					■	■	■	■					EC1-211

SCIENTIFIC COMMISSIONS G AND H, PANELS, OTHER EVENTS

EVENT	SUNDAY				MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY				SATURDAY				ROOM
	AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		AM		PM		
G0.1	■	■																											EC1-317
G0.2					■	■			■																				EC1-317
G0.3										■																			EC1-317
G0.4											■	■																	EC1-317
G0.5			■	■																									EC1-317
H0.1																			■										EC1-216
H0.2																	■	■											EC1-216
H0.3											■																		EC1-216
H0.4																					■	■							EC1-216
H0.5																							■	■	■	■			EC1-216
H0.6															■														EC1-216
IR.1															■	■	■	■	■	■									CON-203
PCB.1													■	■															EC1-317
PCB.2															■	■													EC1-317
PE.1										■	■	■					■	■	■	■	■	■	■	■					EC1-314
PE.1													■	■	■	■													Nat. Sci. Museum
PE.2	■	■	■	■																									EC1-314
PE.2					■	■																							EC1-218
PEDAS.1									■	■	■		■	■	■		■	■	■	■									EC1-218
PEX.1					■	■																							EC1-214
PEX.2																					■	■							EC1-218
PIR.1																	■	■	■	■									CON-201
PoIS.1																	■	■											CON-108
PPP.1									■	■	■	■																	EC1-214
PPP.2													■	■	■														EC1-214
PPP.3	■	■	■	■																									EC1-214
PRBEM.1															■	■													CON-201
PRBEM.2																	■	■	■										CON-110
PRBEM.3																				■	■								CON-110
PSB.1	■	■	■	■	■	■			■																				CON-105
PSB.2																	■	■											CON-105
PSD.1													■	■	■		■	■											EC1-217
PSD.2																			■	■									EC1-217
PSSH.1																	■	■											CON-109
PSW.1																						■	■	■					EC1-315
PSW.2					■																								EC1-314
PSW.3									■				■	■															EC1-314
PSW.4															■	■													EC1-314
PSW.5									■	■	■																		EC1-315
PSW.6						■																							EC1-314
PSW.7													■	■		■	■	■	■										EC1-315
PSW.8																					■								EC1-315
PSW.9					■	■																							EC1-315
PSW.10			■	■																									EC1-315
TGCSS.1																	■	■	■	■									CON-106
TGIGSP.1																				■									EC1-317
TGII.1											■																		CON-104

Overview – Scientific Events by Time Block

SC A: Space Studies of the Earth's Surface, Meteorology and Climate

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
A0.1	What Are the Remaining Scientific Challenges above Equatorial Regions? How Small Satellites Could Fill the Knowledge Gap	1	O(EC1-316)		EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-316)						
		3	O(EC1-316)						
		4	O(EC1-316)						
A0.2	Land-Ocean-Atmosphere interactions	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-317)	
		2						O(EC1-317)	
		3						O(EC1-317)	
		4						O(EC1-317)	
A0.4	Earth observations for Disaster Mitigation	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-316)	
		2						O(EC1-316)	
		3						O(EC1-316)	
		4							
A0.5	Synergy of Multiple Satellites to Achieve Carbon Neutrality across the Globe	1							
		2					O(EC1-316)		
		3					O(EC1-316)		
		4							
A0.6	The Connections between Earth's Lower and Upper Atmosphere	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2							
		3							

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		4						O(EC1-316)	
A1.1	Space-based and sub-orbital observations of atmospheric physics and chemistry: Critical Information on the Health of our Planet	1			EC1-Hall 1	O(EC1-316) EC1-Hall 1	O(EC1-316) EC1-Hall 1		
		2				O(EC1-316)			
		3				O(EC1-316)			
		4				O(EC1-316)			
A2.1	Science and Applications Enabled by Satellite Missions for Global Ocean, Inland Seas, and Cryosphere	1		O(EC1-316)	O(EC1-316) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2		O(EC1-316)	O(EC1-316)				
		3			O(EC1-316)				
		4			O(EC1-316)				
A3.1	New Technology in Earth Observation and Applications for Sustainable Land Ecosystem	1			EC1-Hall 1	EC1-Hall 1	O(EC1-317) EC1-Hall 1		
		2					O(EC1-317)		
		3					O(EC1-317)		
		4							

SC B: Space Studies of the Earth-Moon System, Planets, and Small Bodies of the Solar System

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
B0.1	Planetary Science Highlights	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2							
		3				O(CON-205)			
		4				O(CON-205)			
B0.2	Instrumentation for Planetary Exploration	1	O(EC1-216)		EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		2	O(EC1-216)						
		3	O(EC1-216)						
		4	O(EC1-216)						
B0.3	Technology for Planetary Exploration	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-215)	
		2						O(EC1-215)	
		3						O(EC1-215)	
		4						O(EC1-215)	
B1.1	Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense	1	O(EC1-215)	O(EC1-215)	O(EC1-215) EC1-Hall 1	O(EC1-215) EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-215)	O(EC1-215)	O(EC1-215)	O(EC1-215)			
		3	O(EC1-215)		O(EC1-215)	O(EC1-215)			
		4	O(EC1-215)						
B3.1	Lunar Science and Exploration	1	O(EC1-217)	O(EC1-217)	O(EC1-217) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-217)	O(EC1-217)	O(EC1-217)				
		3	O(EC1-217)		O(EC1-217)				
		4	O(EC1-217)		O(EC1-217)				
B3.2	New Planetary Science Opportunities and Results Enabled by Commercial Infrastructure and Venture Capital	1				O(EC1-216)			
		2				O(EC1-216)			
		3							
		4							
B3.3	Life Science in Space and on the Moon	1							O(EC1-215)
		2							O(EC1-215)
		3							
		4							
B4.1	Mercury Science and Exploration	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		2			O(EC1-216)				
		3							
		4							
B4.2	Venus Science and Exploration	1			EC1-Hall 1	EC1-Hall 1	O(EC1-214) EC1-Hall 1	O(EC1-214)	
		2					O(EC1-214)	O(EC1-214)	
		3					O(EC1-214)	O(EC1-214)	
		4						O(EC1-214)	
B4.3	Mars Science Results	1							O(EC1-217)
		2							
		3						O(EC1-217)	
		4						O(EC1-217)	
B4.4	Forward Planning for the Exploration of Mars	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-217)	
		2						O(EC1-217)	
		3							
		4							
B5.1	Jupiter, the Galilean Satellites, Rings and Magnetospheres: Juno Results	1		O(EC1-216)	O(EC1-216) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2		O(EC1-216)					
		3							
		4							
B5.2	Gas Giants and Icy Giants with their Systems	1	O(EC1-218)						
		2	O(EC1-218)						
		3							
		4							
B5.3	Ocean Worlds: Past, Present, and Future	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		2							
		3	O(EC1-218)						
		4	O(EC1-218)						
B6.1- E4.1	Exoplanet Detection and Characterisation: Current Research, Future 0pportunities and the Search for Life Outside the Solar System	1			EC1-Hall 1	EC1-Hall 1	O(EC1-215) EC1-Hall 1		
		2					O(EC1-215)		
		3					O(EC1-215)		
		4							

SC C: Space Studies of the Upper Atmospheres of the Earth and Planets including Reference Atmospheres

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
C0.1	International Standards for Space Environment	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2			O(EC1-311)				
		3			O(EC1-311)				
		4			O(EC1-311)				
C0.2	Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies	1		O(EC1-311)	O(EC1-311) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-311)	O(EC1-311)					
		3	O(EC1-311)						
		4	O(EC1-311)						
C1.1	Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies	1			EC1-Hall 1	EC1-Hall 1	O(EC1-312) EC1-Hall 1	O(EC1-312)	O(EC1-312)
		2					O(EC1-312)	O(EC1-312)	O(EC1-312)
		3				O(EC1-312)	O(EC1-312)	O(EC1-312)	

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		4					O(EC1-312)	O(EC1-312)	
C1.2	Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(EC1-313)
		2							O(EC1-313)
		3						O(EC1-313)	
		4						O(EC1-313)	
C1.3	Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources	1		O(EC1-313)	O(EC1-313) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2		O(EC1-313)	O(EC1-313)				
		3	O(EC1-313)		O(EC1-313)				
		4	O(EC1-313)						
C1.4	Space Weather and Earth's Atmosphere-Ionosphere	1			EC1-Hall 1	O(EC1-313) EC1-Hall 1	O(EC1-313) EC1-Hall 1	O(EC1-313)	
		2				O(EC1-313)	O(EC1-313)	O(EC1-313)	
		3				O(EC1-313)	O(EC1-313)		
		4							
C2.1	Gravity Waves and Turbulence in the Middle Atmosphere and Lower Ionosphere	1			EC1-Hall 1	EC1-Hall 1	O(EC1-311) EC1-Hall 1		
		2					O(EC1-311)		
		3					O(EC1-311)		
		4					O(EC1-311)		
C3.1	Planetary Atmospheres	1		O(EC1-213)					
		2		O(EC1-213)					
		3							
		4							
C3.2	Planetary Upper Atmospheres, Ionospheres and Magnetospheres	1		O(EC1-312)	O(EC1-312) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2		O(EC1-312)	O(EC1-312)				

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		3			O(EC1-312)				
		4			O(EC1-312)				
C4.1	International Reference Ionosphere: Improvements, Validation, and Applications	1						O(EC1-311)	O(EC1-311)
		2						O(EC1-311)	O(EC1-311)
		3						O(EC1-311)	
		4						O(EC1-311)	
C4.2	Development of first-principles and empirical models related to the COSPAR International Reference Atmosphere	1			EC1-Hall 1	O(EC1-312) EC1-Hall 1	EC1-Hall 1		
		2				O(EC1-312)			
		3							
		4							
C5.1-D4.1	Dust Observations in Space and Laboratory Experiments	1				O(EC1-311)			
		2				O(EC1-311)			
		3				O(EC1-311)			
		4							

SC D: Space Plasmas in the Solar System, including Planetary Magnetospheres

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
D0.1	Overview Session Commission D	1							
		2							
		3			O(CON-205)				
		4			O(CON-205)				
D1.1	Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres	1	O(CON-101)	O(CON-101)	EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-101)	O(CON-101)					
		3	O(CON-101)						
		4	O(CON-101)						
D1.2	Large Scale Structure of Heliosphere and its Physical Drivers	1			EC1-Hall 1	O(CON-103) EC1-Hall 1	O(CON-103) EC1-Hall 1		
		2				O(CON-103)			
		3				O(CON-103)			
		4							
D1.3	Magneto-plasma Structures, Streams and Flows in the Heliosphere	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(CON-103)	
		2					O(CON-103)	O(CON-103)	
		3					O(CON-103)	O(CON-103)	
		4					O(CON-103)	O(CON-103)	
D1.4	Suprathermal and Pickup Ions Throughout the Heliosphere	1			O(CON-104)				
		2							
		3							
		4							
D1.5	Turbulence in the Heliosphere from the Solar Corona to the Very Local Interstellar Medium	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(CON-104)
		2							O(CON-104)
		3							

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		4							
D1.6	Understanding and Predicting Solar Energetic Particle Events Across the Heliosphere	1			EC1-Hall 1	O(CON-104) EC1-Hall 1	EC1-Hall 1		
		2			O(CON-104)	O(CON-104)			
		3				O(CON-104)			
		4							
D1.7	Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(CON-101)
		2							O(CON-101)
		3							
		4						O(CON-101)	
D2.1- E3.1	Off-the-Sun-Earth-Line(OSEL) Missions	1	O(CON-104)	O(CON-104)					
		2	O(CON-104)	O(CON-104)					
		3	O(CON-104)						
		4	O(CON-104)						
D2.2- E3.2	Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects	1			EC1-Hall 1	EC1-Hall 1	O(CON-101) EC1-Hall 1	O(CON-101)	
		2					O(CON-101)	O(CON-101)	
		3				O(CON-101)	O(CON-101)	O(CON-101)	
		4					O(CON-101)		
D2.3- E3.3	Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies	1	O(CON-102)	O(CON-102)	O(CON-102) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-102)	O(CON-102)	O(CON-102)				
		3	O(CON-102)						
		4	O(CON-102)						
D2.4- E3.4	STEREO's Journey around the Sun: An Era of Single and Multi-spacecraft Observations from 2007 to 2024	1				O(CON-102)			
		2				O(CON-102)			
		3				O(CON-102)			

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Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		4							
D2.5-E3.5	Impact of the Inhomogeneous Solar Corona and Solar wind on CME Evolution	1			EC1-Hall 1	EC1-Hall 1	O(CON-102) EC1-Hall 1		
		2					O(CON-102)		
		3					O(CON-102)		
		4					O(CON-102)		
D3.1	Highlights of Magnetospheric Plasma Physics	1	O(CON-103)		EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-103)						
		3	O(CON-103)						
		4	O(CON-103)						
D3.2	Cross-scale Coupling and Multi-point Observations in the Solar Wind and Magnetosphere	1		O(CON-103)	O(CON-103) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2		O(CON-103)	O(CON-103)				
		3							
		4							
D3.3	Origin of Non-thermal Distributions in Space Plasmas and their Role in Wave Generation and Heating / Acceleration of Particles	1			EC1-Hall 1	EC1-Hall 1	O(CON-104) EC1-Hall 1		
		2					O(CON-104)		
		3					O(CON-104)		
		4					O(CON-104)		
D3.4	Particle Transport Acceleration and Loss in the Earth and Planetary Magnetospheres	1			O(CON-101) EC1-Hall 1	O(CON-101) EC1-Hall 1	EC1-Hall 1		
		2			O(CON-101)	O(CON-101)			
		3							
		4							
D3.5	Role of Mesoscale Coupling as the Driver of System Level Storm and Substorm Dynamics in Geospace	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(CON-102)	
		2						O(CON-102)	

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		3						O(CON-102)	
		4							
D3.6	CubeSat and Small Satellite Technology Addressing Magnetospheric Challenges	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(CON-102)
		2							O(CON-102)
		3							
		4							
D3.7	Machine Learning and Data Sciences	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(CON-104)	
		2						O(CON-104)	
		3						O(CON-104)	
		4						O(CON-104)	
D3.8	Dayside Magnetosphere Interactions	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(CON-103)
		2							O(CON-103)
		3							
		4							

SC E: Research in Astrophysics from Space

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
E0.1	Scientific Commission E Overview Event	1					O(CON-205)		
		2					O(CON-205)		
		3							
		4							
E1.1	Origin of Cosmic Rays	1	O(CON-205)	O(CON-205)	O(CON-205) EC1-Hall 1	O(CON-205) EC1-Hall 1	EC1-Hall 1	O(CON-205)	O(CON-205)
		2	O(CON-205)	O(CON-205)	O(CON-205)	O(CON-205)		O(CON-205)	O(CON-205)
		3	O(CON-205)				O(CON-205)	O(CON-205)	
		4	O(CON-205)				O(CON-205)	O(CON-205)	
E1.2	Advanced Timing-spectral Polarimetric Analysis and Modeling of Accreting Black Holes and Neutron Stars	1			O(CON-202)	O(CON-202)			
		2			O(CON-202)	O(CON-202)			
		3			O(CON-202)	O(CON-202)	O(CON-202)		
		4			O(CON-202)				
E1.3	Space-ground Scientific and Exploitation Synergies and Challenges	1			EC1-Hall 1	O(CON-110) EC1-Hall 1	EC1-Hall 1		
		2				O(CON-110)			
		3				O(CON-110)			
		4							
E1.4	Spectral Mapping Surveys of the Universe	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(CON-201)
		2							O(CON-201)
		3							
		4							
E1.5	Illuminating Gravitational Waves and their Environments	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(CON-108)	O(CON-108)
		2						O(CON-108)	O(CON-108)

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		3					O(CON-108)	O(CON-108)	
		4						O(CON-108)	
E1.6	Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations	1	O(CON-110)	O(CON-110)	O(CON-110) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-110)	O(CON-110)	O(CON-110)				
		3	O(CON-110)		O(CON-110)				
		4	O(CON-110)						
E1.7	Black Hole Astrophysics: Theory and Simulations Confront Observations	1			EC1-Hall 1	O(CON-107) EC1-Hall 1	EC1-Hall 1	O(CON-107)	O(CON-107)
		2				O(CON-107)		O(CON-107)	O(CON-107)
		3				O(CON-107)	O(CON-107)	O(CON-107)	
		4						O(CON-107)	
E1.8	Solving the Accretion/Ejection Puzzle in AGN: Synergies and Clashes in the Central kpc	1			O(CON-201) EC1-Hall 1	O(CON-201) EC1-Hall 1	EC1-Hall 1		
		2			O(CON-201)	O(CON-201)			
		3			O(CON-201)				
		4							
E1.9	Spectral/Timing Properties of AGN: Theory and Observations	1	O(CON-107)	O(CON-107)	O(CON-107)				
		2	O(CON-107)	O(CON-107)	O(CON-107)				
		3	O(CON-107)						
		4	O(CON-107)						
E1.10	Extreme Accretion Events in Supermassive Black Holes	1						O(CON-105)	
		2						O(CON-105)	
		3						O(CON-105)	
		4						O(CON-105)	
E1.11	Coevolution between High-redshift Quasars and Galaxies in the Era of JWST	1		O(CON-108)	O(CON-108) EC1-Hall 1	O(CON-108) EC1-Hall 1	EC1-Hall 1		

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		2		O(CON-108)	O(CON-108)	O(CON-108)			
		3			O(CON-108)	O(CON-108)			
		4							
E1.12	Gamma-ray Bursts in the next Decade	1	O(CON-202)	O(CON-202)	EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-202)	O(CON-202)					
		3	O(CON-202)						
		4	O(CON-202)						
E1.13	Observations and Prospects for X-ray Polarimetry	1				O(CON-109)		O(CON-109)	O(CON-109)
		2				O(CON-109)		O(CON-109)	O(CON-109)
		3				O(CON-109)	O(CON-109)	O(CON-109)	
		4						O(CON-109)	
E1.14	Multi-wavelength fast variability across mass scales: from neutron stars to supermassive black holes	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-109)						
		3	O(CON-109)						
		4	O(CON-109)						
E1.15	To Flow in or to Flow out, That is the Question of Black-hole X-ray Binaries	1						O(CON-202)	O(CON-202)
		2						O(CON-202)	O(CON-202)
		3						O(CON-202)	
		4						O(CON-202)	
E1.16	High Mass X-ray Binaries: a new View on Accretion and Reprocessing	1		O(CON-109)	O(CON-109) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2		O(CON-109)	O(CON-109)				
		3			O(CON-109)				
		4							
E1.17	Constraining the Behaviour of Ultra-dense Matter Using Weakly Magnetised Neutron Stars	1	O(CON-108)						
		2	O(CON-108)						

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		3	O(CON-108)						
		4	O(CON-108)						
E1.18	Plasma at the Inner Dozen of Gravitational Radii: from Dissipation to Radiation in Accreting Black Hole Systems	1						O(CON-201)	
		2						O(CON-201)	
		3						O(CON-201)	
		4						O(CON-201)	
E1.19	Cataclysmic Variables and Related Systems as Probes of Accretion, Binary Evolution and Thermo-nuclear Explosions	1			O(CON-203)	O(CON-203)		O(CON-203)	
		2			O(CON-203)	O(CON-203)		O(CON-203)	
		3			O(CON-203)		O(CON-105)	O(CON-203)	
		4			O(CON-203)		O(CON-105)		
E2.1	Energetics and dynamics in the quiet solar atmosphere and beyond	1	O(CON-106)	O(CON-106)	O(CON-106) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-106)	O(CON-106)	O(CON-106)				
		3	O(CON-106)		O(CON-106)				
		4	O(CON-106)						
E2.2	Energy and mass transport of small scales in the low solar atmosphere	1			EC1-Hall 1	O(CON-106) EC1-Hall 1	EC1-Hall 1	O(CON-106)	
		2				O(CON-106)		O(CON-106)	
		3				O(CON-106)		O(CON-106)	
		4						O(CON-106)	
E2.3	Plasma and Magnetic Field Coupling in Solar Prominences	1			EC1-Hall 1	O(CON-105) EC1-Hall 1	EC1-Hall 1		
		2			O(CON-105)	O(CON-105)			
		3			O(CON-105)	O(CON-105)			
		4			O(CON-105)	O(CON-105)			
E2.4	Application of Machine Learning Techniques in Solar and Heliospheric Physics	1	O(CON-201)	O(CON-201)	EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-201)	O(CON-201)					

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Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		3	O(CON-201)						
		4	O(CON-201)						
E2.5	Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind	1	O(CON-203)	O(CON-203)	EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-203)	O(CON-203)					
		3	O(CON-203)						
		4	O(CON-203)						
E2.6	Developments and Applications of the Solar Magnetic Field Modelling	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(CON-110)
		2						O(CON-110)	O(CON-110)
		3						O(CON-110)	
		4						O(CON-110)	
E2.7	Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(CON-106)
		2							O(CON-106)
		3							
		4							

SC F: Life Sciences as Related to Space

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
F0.1	Joint Commission F Symposium	1		O(EC1-211)					
		2		O(EC1-211)					
		3							
		4							
F0.2	International Life Support Panel	1			O(EC1-212)				
		2							
		3							
		4							
F1.1	Gravity Perception and Response in Plants and Fungi: Ground and Space Studies	1			O(EC1-211)				
		2							
		3							
		4							
F1.2	Space Microgravity Environment Utilization	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2			O(EC1-211)				
		3	O(EC1-211)		O(EC1-211)				
		4	O(EC1-211)						
F2.1	Biological Effects of Space Radiation and Co-stressors	1	O(EC1-212)		EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-212)		O(EC1-212)				
		3			O(EC1-212)				
		4							
F2.2	Enabling Human Space Exploration through Research on Risks and Countermeasures to Space Radiation Exposure	1				O(EC1-212)			
		2				O(EC1-212)			
		3	O(EC1-212)						
		4	O(EC1-212)						

Continued on the next page

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
F2.3	Space Radiations: Dosimetric Measurements and Related Models and Detector Development	1				O(EC1-213)			
		2				O(EC1-213)			
		3				O(EC1-213)			
		4							
F2.4	Genetic Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-212)	
		2						O(EC1-212)	
		3						O(EC1-212)	
		4						O(EC1-212)	
F3.1	Chemical Complexity of Molecular Universe	1	O(EC1-213)		O(EC1-213) EC1-Hall 1	EC1-Hall 1	O(EC1-213) EC1-Hall 1		
		2	O(EC1-213)		O(EC1-213)				
		3	O(EC1-213)		O(EC1-213)				
		4	O(EC1-213)						
F3.2	Astrobiology and Exploration	1			EC1-Hall 1	EC1-Hall 1	O(EC1-212) EC1-Hall 1		
		2					O(EC1-212)		
		3					O(EC1-212)		
		4							
F3.4	Interstellar Organic Molecules in the Age of JWST and ALMA	1						O(EC1-213)	O(EC1-213)
		2					O(EC1-213)	O(EC1-213)	O(EC1-213)
		3					O(EC1-213)	O(EC1-213)	
		4						O(EC1-213)	
F4.1	Advances in Life Support Technologies and Test Bed Facilities	1	O(EC1-312)		EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-312)						
		3	O(EC1-312)						
		4	O(EC1-312)						

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Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
F4.2	Influence of Spaceflight Environments on Biological Systems	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2							
		3				O(EC1-212)			
		4				O(EC1-212)			
F4.3	Space Food and Nutrition	1			EC1-Hall 1	EC1-Hall 1	O(EC1-211) EC1-Hall 1		
		2					O(EC1-211)		
		3							
		4							
F5.1	Molecular, Cellular and Physiologica Changes to Spaceflight and Ground Studies	1				O(EC1-211)			
		2				O(EC1-211)			
		3				O(EC1-211)	O(EC1-211)		
		4							
F5.2	Exploring the Space Exposome and Approaches for Assessing Spaceflight-Associated Human Health Risks	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-211)	
		2						O(EC1-211)	
		3						O(EC1-211)	
		4						O(EC1-211)	

SC G: Materials Sciences in Space

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
G0.1	Gravitational Effects on Physico-Chemical Processes	1	O(EC1-317)		EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-317)						
		3							
		4							
G0.2	Drop Tower Days	1		O(EC1-317)	O(EC1-317)				
		2		O(EC1-317)					
		3							
		4							
G0.3	Influence of Free Space Environoment on the Behavior of Materials	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2			O(EC1-317)				
		3							
		4							
G0.4	Advanced Materials and their Technologies for Space Exploration	1							
		2							
		3			O(EC1-317)				
		4			O(EC1-317)				
G0.5	GravityNEXT	1							
		2							
		3	O(EC1-317)						
		4	O(EC1-317)						

SC H: Fundamental Physics in Space

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
H0.1	Commission H Highlight Talks	1							
		2							
		3					O(EC1-216)		
		4							
H0.2	Gravitation, Dark Energy and Matter	1			EC1-Hall 1	EC1-Hall 1	O(EC1-216) EC1-Hall 1		
		2					O(EC1-216)		
		3							
		4							
H0.3	Enabling Technologies for Fundamental Physics in Space	1							
		2							
		3			O(EC1-216)				
		4							
H0.4	Gravitational Waves	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-216)	
		2						O(EC1-216)	
		3							
		4							
H0.5	Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		O(EC1-216)
		2							O(EC1-216)
		3						O(EC1-216)	
		4						O(EC1-216)	
H0.6	Cold Atoms	1							
		2							
		3				O(EC1-216)			
		4							

P: Panels

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
PCB.1	Capacity Building	1				O(EC1-317)			
		2				O(EC1-317)			
		3							
		4							
PCB.2	Small Satellites for Capacity Building	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2							
		3				O(EC1-317)			
		4				O(EC1-317)			
PEDAS.1	A Sustainable Space Exploration: from the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments	1			O(EC1-218) EC1-Hall 1	O(EC1-218) EC1-Hall 1	O(EC1-218) EC1-Hall 1		
		2			O(EC1-218)	O(EC1-218)	O(EC1-218)		
		3			O(EC1-218)	O(EC1-218)	O(EC1-218)		
		4					O(EC1-218)		
PEX.1	Integrating Environmental Ethics into Planetary Exploration and Use	1		O(EC1-214)					
		2		O(EC1-214)					
		3							
		4							
PEX.2	International and Multiple Stakeholders Cooperation in the Sustainable Exploration and Utilisation of the Moon, Near Earth Asteroids, Mars, and Other Celestial Bodies	1						O(EC1-218)	
		2						O(EC1-218)	
		3							
		4							
PE.1	Space Explorers in Schools - Empowering the Next Generation of Researchers	1				O(NSM)	O(EC1-314)	O(EC1-314)	
		2			O(EC1-314)	O(NSM)	O(EC1-314)	O(EC1-314)	
		3			O(EC1-314)	O(NSM)	O(EC1-314)	O(EC1-314)	

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Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		4			O(EC1-314)	O(NSM)	O(EC1-314)	O(EC1-314)	
PE.2	Current Trends, Initiatives And Research In Education And Outreach For Space Sciences	1	O(EC1-314)	O(EC1-218)	EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-314)	O(EC1-218)					
		3	O(EC1-314)						
		4	O(EC1-314)						
PIR.1	Near-term Exploration of the Interstellar Medium,: Progress and Status	1			EC1-Hall 1	EC1-Hall 1	O(CON-201) EC1-Hall 1		
		2					O(CON-201)		
		3					O(CON-201)		
		4					O(CON-201)		
POIS.1	Quantum Computing	1					O(CON-108)		
		2					O(CON-108)		
		3							
		4							
PPP.1	Planetary Protection Policy	1			O(EC1-214)				
		2			O(EC1-214)				
		3			O(EC1-214)				
		4			O(EC1-214)				
PPP.2	Planetary Protection Mission Implementation and Status	1			EC1-Hall 1	O(EC1-214) EC1-Hall 1	EC1-Hall 1		
		2				O(EC1-214)			
		3				O(EC1-214)			
		4							
PPP.3	Planetary Protection Research and Development	1	O(EC1-214)		EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(EC1-214)						
		3	O(EC1-214)						

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Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		4	O(EC1-214)						
PRBEM.1	Standards and Tools for Radiation Measurements and Supporting Data	1							
		2							
		3				O(CON-201)			
		4				O(CON-201)			
PRBEM.2	Radiation Environment across the Solar System: Observations, Measurements, and Models for Current and Future Space Missions	1			EC1-Hall 1	EC1-Hall 1	O(CON-110) EC1-Hall 1		
		2					O(CON-110)		
		3					O(CON-110)		
		4							
PRBEM.3	Development and Validation of Numerical and Empirical Radiation Belts Models	1						O(CON-110)	
		2							
		3							
		4					O(CON-110)		
PSB.1	Scientific Ballooning: Recent Developments in Technology and Instrumentation	1	O(CON-105)	O(CON-105)	O(CON-105) EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2	O(CON-105)	O(CON-105)					
		3	O(CON-105)						
		4	O(CON-105)						
PSB.2	Low-Cost Balloon Flights as a Learning Tool	1					O(CON-105)		
		2					O(CON-105)		
		3							
		4							
PSD.1	Satellite Dynamics: New Developments and Challenges for Earth and Solar System Sciences	1			EC1-Hall 1	O(EC1-217) EC1-Hall 1	O(EC1-217) EC1-Hall 1		
		2				O(EC1-217)	O(EC1-217)		
		3				O(EC1-217)			

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Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
		4							
PSD.2	Precision Orbit and Attitude Determination of Small Satellites, CubeSats, and Constellation and their Scientific Applications	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2							
		3					O(EC1-217)		
		4					O(EC1-217)		
PSSH.1	The Challenges of Space Activities from the Perspective of Human and Social Sciences	1			EC1-Hall 1	EC1-Hall 1	O(CON-109) EC1-Hall 1		
		2					O(CON-109)		
		3							
		4							
PSW.1	Parameterising Performance Assessment within the Space Weather Domain: Validation and Verification at Different Stages in the R2O2R Process	1							
		2						O(EC1-315)	
		3						O(EC1-315)	
		4						O(EC1-315)	
PSW.2	Space Weather at Planetary Bodies in the Solar System	1		O(EC1-314)					
		2							
		3							
		4							
PSW.3	Preparation for a New Ionospheric Space Weather Scale for Trans-ionospheric Radio wave Propagation	1			O(EC1-314)	O(EC1-314)			
		2				O(EC1-314)			
		3							
		4							
PSW.4	Information Architecture and Innovative Solutions in Space Weather. Interfacing and Coordination between Different Efforts on Standardization	1							
		2							
		3				O(EC1-314)			
		4				O(EC1-314)			

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Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
PSW.5	Community-Driven COSPAR Space Weather Roadmap	1			O(EC1-315)				
		2			O(EC1-315)				
		3			O(EC1-315)				
		4							
PSW.6	Improving Predictive Capabilities of Radiation Environment in Support of Human Exploration and Robotic Missions	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2		O(EC1-314)					
		3							
		4							
PSW.7	International Space Weather Cooperation	1				O(EC1-315)	O(EC1-315)		
		2				O(EC1-315)	O(EC1-315)		
		3					O(EC1-315)		
		4				O(EC1-315)			
PSW.8	The Geomagnetic Environment Leading to GIC Impacts on Power-infrastructure	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1	O(EC1-315)	
		2							
		3							
		4							
PSW.9	International Space Weather Missions and Coordination: Current and Planned Missions	1		O(EC1-315)					
		2		O(EC1-315)					
		3							
		4							
PSW.10	Radio Observations for Space Weather	1			EC1-Hall 1	EC1-Hall 1	EC1-Hall 1		
		2							
		3	O(EC1-315)						
		4	O(EC1-315)						

SC TG: Task Groups

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
TGCSS.1	Small Spacecraft - Big Science	1			EC1-Hall 1	EC1-Hall 1	O(CON-106) EC1-Hall 1		
		2					O(CON-106)		
		3					O(CON-106)		
		4					O(CON-106)		
TGII.1	IDEA as a Transformative Global Issue: Developing Strategies to Advance Positive Systemic Change in STEM Education and Careers Across the International Scientific Technical Community	1							
		2							
		3			O(CON-104)				
		4							
TGIGSP.1	ISTPNext: International Coordination in Heliophysics	1							
		2							
		3							
		4					O(EC1-317)		

SC IR: Industry Relations

Event	Title	TB	Sun	Mon	Tue	Wed	Thu	Fri	Sat
IR.1	Engaging Global Space Industry Stakeholders	1					O(CON-203)		
		2					O(CON-203)		
		3				O(CON-203)	O(CON-203)		
		4				O(CON-203)	O(CON-203)		

Overview – Scientific Events by Day

Sun, Jul 14, 2024

09:00-10:30 • Scientific Events		Room	Page
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B0.2	Instrumentation for Planetary Exploration	EC1-216	p. 87
B1.1	Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense	EC1-215	p. 88
B3.1	Lunar Science and Exploration	EC1-217	p. 89
B5.2	Gas Giants and Icy Giants with their Systems	EC1-218	p. 91
D1.1	Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres	CON-101	p. 93
D2.1-E3.1	Off-the-Sun-Earth-Line(OSEL) Missions	CON-104	p. 95
D2.3-E3.3	Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies	CON-102	p. 96
D3.1	Highlights of Magnetospheric Plasma Physics	CON-103	p. 97
E1.1	Origin of Cosmic Rays	CON-205	p. 98
E1.6	Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations	CON-110	p. 99
E1.9	Spectral/Timing Properties of AGN: Theory and Observations	CON-107	p. 100
E1.12	Gamma-ray Bursts in the next Decade	CON-202	p. 101
E1.17	Constraining the Behaviour of Ultra-dense Matter Using Weakly Magnetised Neutron Stars	CON-108	p. 102
E2.1	Energetics and dynamics in the quiet solar atmosphere and beyond	CON-106	p. 103
E2.4	Application of Machine Learning Techniques in Solar and Heliospheric Physics	CON-201	p. 104
E2.5	Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind	CON-203	p. 105
F2.1	Biological Effects of Space Radiation and Co-stressors	EC1-212	p. 107
F3.1	Chemical Complexity of Molecular Universe	EC1-213	p. 108
F4.1	Advances in Life Support Technologies and Test Bed Facilities	EC1-312	p. 109
G0.1	Gravitational Effects on Physico-Chemical Processes	EC1-317	p. 110
PE.2	Current Trends, Initiatives And Research In Education And Outreach For Space Sciences	EC1-314	p. 111
PPP.3	Planetary Protection Research and Development	EC1-214	p. 112
PSB.1	Scientific Ballooning: Recent Developments in Technology and Instrumentation	CON-105	p. 113

11:00-12:30 • Scientific Events		Room	Page
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B0.2	Instrumentation for Planetary Exploration	EC1-216	p. 87
B1.1	Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense	EC1-215	p. 88
B3.1	Lunar Science and Exploration	EC1-217	p. 90
B5.2	Gas Giants and Icy Giants with their Systems	EC1-218	p. 91
C0.2	Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies	EC1-311	p. 92
D1.1	Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres	CON-101	p. 94
D2.1-E3.1	Off-the-Sun-Earth-Line(OSEL) Missions	CON-104	p. 95
D2.3-E3.3	Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies	CON-102	p. 96
D3.1	Highlights of Magnetospheric Plasma Physics	CON-103	p. 97
E1.1	Origin of Cosmic Rays	CON-205	p. 98
E1.6	Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations	CON-110	p. 99
E1.9	Spectral/Timing Properties of AGN: Theory and Observations	CON-107	p. 100
E1.12	Gamma-ray Bursts in the next Decade	CON-202	p. 101
E1.14	Multi-wavelength fast variability across mass scales: from neutron stars to supermassive black holes	CON-109	p. 102
E1.17	Constraining the Behaviour of Ultra-dense Matter Using Weakly Magnetised Neutron Stars	CON-108	p. 103
E2.1	Energetics and dynamics in the quiet solar atmosphere and beyond	CON-106	p. 103
E2.4	Application of Machine Learning Techniques in Solar and Heliospheric Physics	CON-201	p. 104
E2.5	Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind	CON-203	p. 105
F2.1	Biological Effects of Space Radiation and Co-stressors	EC1-212	p. 107
F3.1	Chemical Complexity of Molecular Universe	EC1-213	p. 108
F4.1	Advances in Life Support Technologies and Test Bed Facilities	EC1-312	p. 109
G0.1	Gravitational Effects on Physico-Chemical Processes	EC1-317	p. 110
PE.2	Current Trends, Initiatives And Research In Education And Outreach For Space Sciences	EC1-314	p. 111
PPP.3	Planetary Protection Research and Development	EC1-214	p. 112
PSB.1	Scientific Ballooning: Recent Developments in Technology and Instrumentation	CON-105	p. 113

15:00-16:30 • Scientific Events		Room	Page
A0.1	What Are the Remaining Scientific Challenges above Equatorial Regions? How Small Satellites Could Fill the Knowledge Gap	EC1-316	p. 86

B0.2	Instrumentation for Planetary Exploration	EC1-216	p. 87
B1.1	Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense	EC1-215	p. 89
B3.1	Lunar Science and Exploration	EC1-217	p. 90
B5.3	Ocean Worlds: Past, Present, and Future	EC1-218	p. 91
C0.2	Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies	EC1-311	p. 92
C1.3	Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources	EC1-313	p. 93
D1.1	Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres	CON-101	p. 94
D2.1-E3.1	Off-the-Sun-Earth-Line(OSEL) Missions	CON-104	p. 95
D2.3-E3.3	Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies	CON-102	p. 96
D3.1	Highlights of Magnetospheric Plasma Physics	CON-103	p. 97
E1.1	Origin of Cosmic Rays	CON-205	p. 98
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E1.9	Spectral/Timing Properties of AGN: Theory and Observations	CON-107	p. 100
E1.12	Gamma-ray Bursts in the next Decade	CON-202	p. 101
E1.14	Multi-wavelength fast variability across mass scales: from neutron stars to supermassive black holes	CON-109	p. 102
E1.17	Constraining the Behaviour of Ultra-dense Matter Using Weakly Magnetised Neutron Stars	CON-108	p. 103
E2.1	Energetics and dynamics in the quiet solar atmosphere and beyond	CON-106	p. 104
E2.4	Application of Machine Learning Techniques in Solar and Heliospheric Physics	CON-201	p. 105
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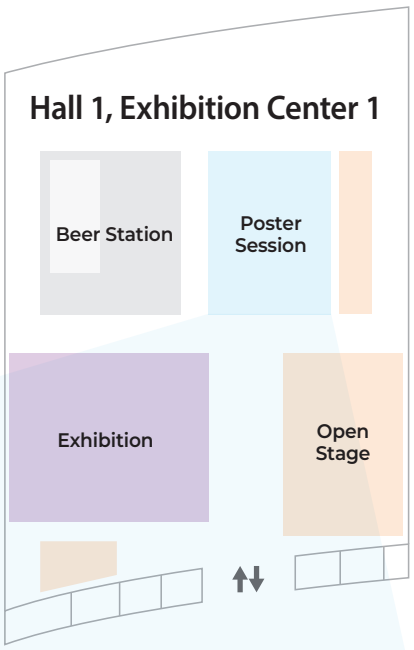
E2.6	Developments and Applications of the Solar Magnetic Field Modelling	CON-110	p. 315
E2.7	Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology	CON-106	p. 330
F3.4	Interstellar Organic Molecules in the Age of JWST and ALMA	EC1-213	p. 331
H0.5	Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics	EC1-216	p. 331

11:00-12:30 • Scientific Events		Room	Page
B3.3	Life Science in Space and on the Moon	EC1-215	p. 322
C1.1	Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies	EC1-312	p. 323
C1.2	Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras	EC1-313	p. 324
C4.1	International Reference Ionosphere: Improvements, Validation, and Applications	EC1-311	p. 324
D1.5	Turbulence in the Heliosphere from the Solar Corona to the Very Local Interstellar Medium	CON-104	p. 325
D1.7	Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays	CON-101	p. 325
D3.6	CubeSat and Small Satellite Technology Addressing Magnetospheric Challenges	CON-102	p. 326
D3.8	Dayside Magnetosphere Interactions	CON-103	p. 326
E1.1	Origin of Cosmic Rays	CON-205	p. 327
E1.4	Spectral Mapping Surveys of the Universe	CON-201	p. 327
E1.5	Illuminating Gravitational Waves and their Environments	CON-108	p. 328
E1.7	Black Hole Astrophysics: Theory and Simulations Confront Observations	CON-107	p. 329
E1.13	Observations and Prospects for X-ray Polarimetry	CON-109	p. 329
E1.15	To Flow in or to Flow out, That is the Question of Black-hole X-ray Binaries	CON-202	p. 329
E2.6	Developments and Applications of the Solar Magnetic Field Modelling	CON-110	p. 330
E2.7	Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology	CON-106	p. 330
F3.4	Interstellar Organic Molecules in the Age of JWST and ALMA	EC1-213	p. 331
H0.5	Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics	EC1-216	p. 331

Poster Board Location and Key

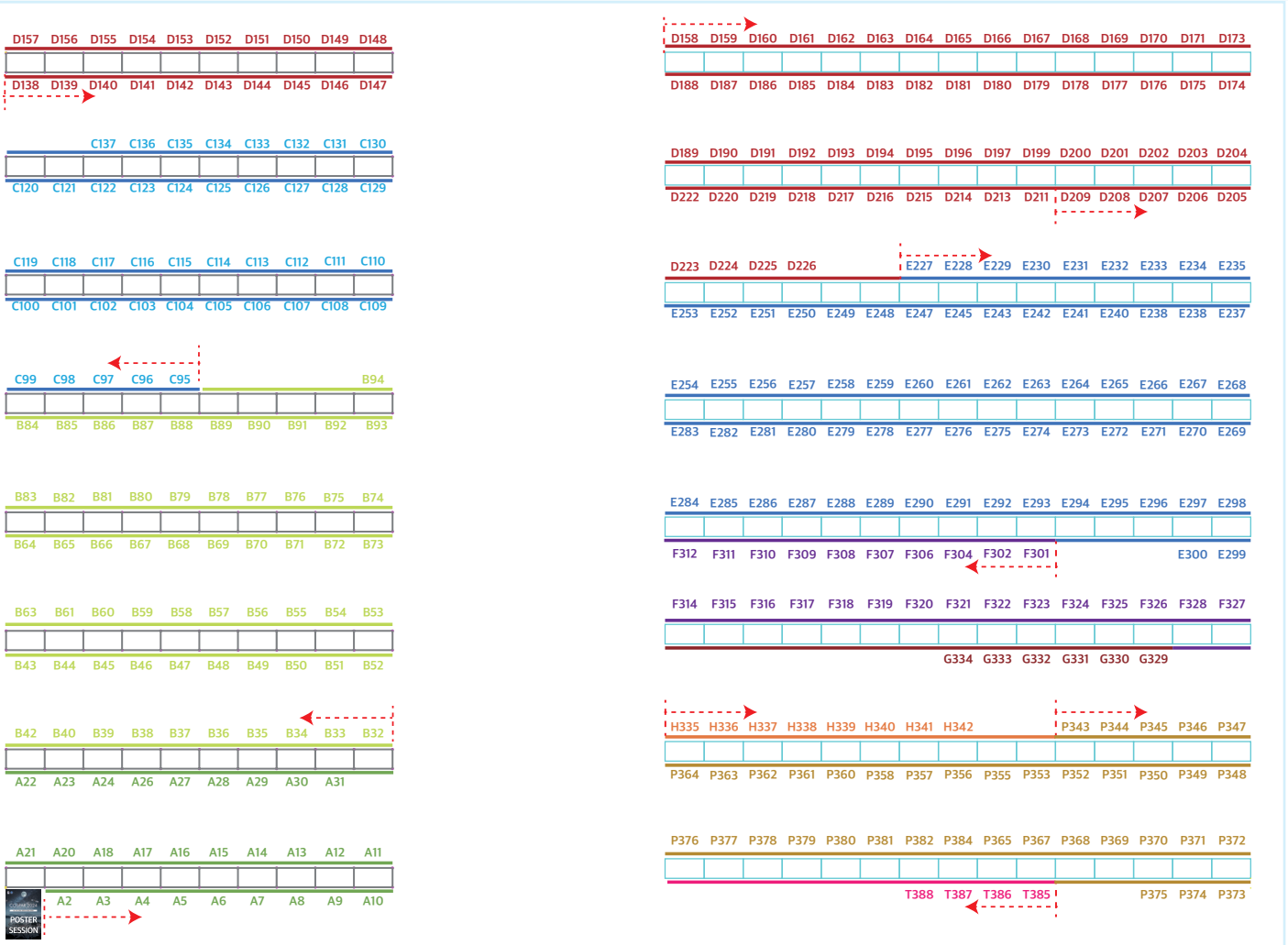


The poster session will be in Hall 1, Exhibition Center 1, BEXCO from 16:30 to 18:30 (2 hours) for 3 days from 16 to 18 July.

- Mounting 14:00-18:00, 13 July to 09:00-11:00, 14 July
- Display 12:30-18:30, 14 July to 09:00-18:30, 15-18 July
- Poster Viewing Session 16:30-18:30, 16-18 July
- Removal 08:00-15:00, 19 July

Poster Boards are identified by the poster key and poster number (e.g., **P xxx**, with xxx being the numeric poster id). Please see the below table.

Important Note: The organizers are not responsible for any loss or damage to posters that are not removed by authors before the end of the designated removal time. Posters not removed by their authors by this time will be automatically disposed of.



SCIENTIFIC SESSION	A	B	C	D	E	F	G	H	PCB	PE	PEDAS	PIR	PPP	PRBEM	PSB	PSD	PSS	PSW	T
POSTER KEY	A	B	C	D	E	F	G	H	P										T
POSTER NO.	2 ~31	32 ~94	95 ~137	138 ~226	227 ~300	301 ~328	329 ~334	335 ~342	343	344 ~350	351	352 ~357	358 ~364	365 ~369	370	371 ~375	376 ~378	379 ~384	385 ~388

COSPAR
COMMITTEE ON
SPACE RESEARCH

Save the Date

6th COSPAR Symposium

November 3-7 2025, Nicosia, Cyprus

Organiser
CSEO
Cyprus Space Exploration Organisation

Scientific Event Program

Sun, Jul 14, 2024

A0.1 What Are the Remaining Scientific Challenges above Equatorial Regions? How Small Satellites Could Fill the Knowledge Gap

Main Scientific Organizer: Lansard, Erick
Deputy Organizer: Benveniste, Jérôme

Space Weather

Chair: Lansard, Erick
Room: EC1-316

A0.1-0001-24 09:00 - 09:20
Space missions keeping an eye on the South Atlantic Anomaly
Mandea, Mioara

A0.1-0002-24 09:20 - 09:40
Space weather effects on equatorial regions : complexities and implications
Pallamraju, Duggirala

A0.1-0003-24 09:40 - 10:00
Equatorial plasma bubble dependence analysis based on multi-source data
Liu, Jialong; Song, Shuli

A0.1-0004-24 10:00 - 10:20
Pilot Study for the Langmuir Probe onboard the Korean Space SCANeR
Song, Hosub; Park, Jaeheung; Lee, Hojin; Sohn, Jongdae; Lee, Daehee; Lee, Jaejin Team: Satellite Technology Research Center KAIST p. 457

Coffee Break

Earth Science

Chair: Benveniste, Jérôme
Room: EC1-316

A0.1-0005-24 11:00 - 11:20
Preliminary results of TRITON ocean surface windspeed assimilation and increasing the value of GNSS-R wind for Tropical cyclone analysis
Yang, Shuchih; Lin, Kuan-Jen; Chang, Yi-Pin; Kao, Cheng-Chieh

A0.1-0006-24 11:20 - 11:40
Predictive Remote Sensing for Indian Subcontinent Monsoon Anomalies (PRISM) using Small Satellites
Mali, Soham; Hari, Priyadarshnam; Jhawar, Shreya; Gabani, Zeel; Shah, Vansh; Kumar, Saurabh; Singh, Vimlesh Kumar; Singh, Chamandeep; Maheshwari, Prakhar; A, Lokaveer

A0.1-0007-24 11:40 - 12:00
Enhanced Climate-Induced Hazards Monitoring with GNSS-Tracked Equatorial SmallSat Constellation
Smith, Patrick; Yan, Zhengwen; Zhang, Yu; Ran, Jiangjun; Shum, C K; Bevis, Michael; Lansard, Erick; Tseng, Tzupang; Weiss, Jan-Peter; Chen, Wu; Yao, Jian; Zhong, Min

A0.1-0008-24 12:00 - 12:20
Observation Priorities for Tropical, High-Resolution Numerical Weather Prediction at CCRS
Barker, Dale

Lunch Break

Earth Science

Chair: Lansard, Erick
Room: EC1-316

A0.1-0009-24 15:00 - 15:20
Scientific Rationales for Contemporary Equatorial Satellite Constellations
Shum, C K; Chen, Wu; Zhong, Min; Lansard, Erick; Li, Weiqiang; Benveniste, Jérôme; Bevis, Michael; Chiong, Ron S.l.; Smith, Patrick; Xiao, Yixin; Zhang, Yu

A0.1-0010-24 15:20 - 15:40
Closing knowledge gaps with eighty billion spectra of the Earth system collected by EMIT from the International Space Station
Green, Robert Team: EMIT Team p. 450

A0.1-0011-24 15:40 - 16:00
The PolCube CubeSat polarimeter for Earth Science
Liu, Xu; Roell, Marilee; Stamnes, Snorre; Ricano Cadenas, Vianni; Woodham, Kurt; Hill, Charles; Hu, Yongxiang; Roithmayr, Carlos; Chemyakin, Eduard; Schlosser, Joseph; Bell, Adam

A0.1-0012-24 (WITHDRAWN) 16:00 - 16:20
EVALUATION OF THE PLANET CONSTELLATION PERFORMANCE FOR MAPPING CROPLAND IN NORTH KIVU (DEMOCRATIC REPUBLIC OF CONGO)
Vermote, Eric; Becker-Reshef, Inbal; Skakun, Sergii; Murphy, Emilie; Wagner, Josef; Nair, Shabarinath

Coffee Break

Earth Science

Chair: Benveniste, Jérôme
Room: EC1-316

A0.1-0013-24 17:00 - 17:20
The INCUS Mission: Exploring Tropical Convective Motions with SmallSats
Rasmussen, Kristen

A0.1-0014-24 17:20 - 17:40

Filling the Observational Gap in Equatorial Atmospheric Sounding, Clouds and Precipitation using Passive Microwave Sensors on Small Satellites
Reising, Steven C.; Kummerow, Christian D.; Chandrasekar, V.; Brown, Shannon; Radhakrishnan, Chandrasekar; Kuo, Chia-Pang; Schulte, Richard

A0.1-0015-24 17:40 - 18:00

First-Year Results from the NASA TROPICS Smallsat Constellation Mission to Advance Tropical Cyclone Research
Blackwell, William

A0.1-0016-24 18:00 - 18:20

How Near-Equatorial Cubesats could drastically improve Weather Monitoring and Forecast over Equatorial/Tropical regions
Lansard, Erick

Sun, Jul 14, 2024

B0.2 Instrumentation for Planetary Exploration

Main Scientific Organizer: Dirri, Fabrizio
Deputy Organizer: Shanmugam, M.

Chair: Longobardo, Andrea
Room: EC1-216

B0.2-0001-24 09:00 - 09:20 (solicited)

Planetary Missions of India: Instruments Review and Science
Bhardwaj, Anil

B0.2-0002-24 09:20 - 09:40 (solicited)

Development status of DESTINY+ onboard cameras for flyby imaging of (3200) Phaethon
Ishibashi, Ko; Okamoto, Takaya; Yamada, Manabu; Okudaira, Osamu; Hong, Peng; Arai, Tomoko; Yoshida, Fumi; Kagitani, Masato; Kameda, Shingo; Takashima, Takeshi

B0.2-0003-24 09:40 - 09:55

Alpha Particle X-ray Spectrometer on Chandrayaan-3 Pragyan Rover: Instrument design, Performance and initial results
Shanmugam, M.; Vadawale, Santosh; Patel, Arpit; N. P. S, Mithun; Adalja, Hitesh Kumar; Ladiya, Tinkal; Goyal, S. K.; Singh, Nishant; Kumar, Sushil; Painkra, Deepak Kumar; Bhardwaj, Anil

B0.2-0004-24 09:55 - 10:15 (solicited)

The DESTINY+ Dust Analyser (DDA) – characterising the dust environment from Earth to (3200) Phaethon
Simolka, Jonas; Acker, Denis; Arai, Tomoko; Bauer, Marcel; Froehlich, Patrick; Glaeser, Jan; Graesslin, Michael; Henkel, Hartmut; Hirai, Takayuki; Ingerl, Stephan; Kobayashi, Masanori; Krueger, Harald; Lengowski, Michael; Li, Yanwei; Rieth, Florian; Sommer, Maximilian; Srama, Ralf; Strack, Heiko; Wagner, Carsten

B0.2-0005-24 10:15 - 10:30

TASTE mission - a smallaste and miniaturized lander to Deimos
Brucato, John Robert; Lavagna, Michèle Roberta; Fiore, Fabrizio Team: TASTE team p. 459

Coffee Break

Chair: Shanmugam, M.
Room: EC1-216

B0.2-0006-24 11:00 - 11:15

LICIACUBE scientific payloads on ground and in flight characterization and calibration
Della Corte, Vincenzo; Miglioretti, Federico; Zinzi, Angelo; Dotto, Elisabetta; Amoroso, Marilena; Bertini, Ivano; Brucato, John Robert; Capannolo, Andrea; Cotugno, Biagio; Cremonese, Gabriele; Dall'ora, Massimo; Deshapriya, J. D. P.; Di Tana, Valerio; Gai, Igor; Ieva, Simone; Impresario, Gabriele; Ivanovski, Stavro; Lavagna, Michèle Roberta; Lucchetti, Alice; Mazzotta Epifani, Elena; Hasselmann, Pedro H.; Meneghin, Andrea; Modenini, Dario; Pajola, Maurizio; Palumbo, Pasquale; Perna, Davide; Pirrotta, Simone; Poggiali, Giovanni; Rossi, Alessandro; Emanuele, Simioni; Simonetti, Simone; Tortora, Paolo; Zannoni, Marco; Zanotti, Giovanni; Ceresoli, Michele; Lasagni Manghi, Riccardo; Gomez Casajus, Luis

B0.2-0007-24 11:15 - 11:30

VISTA payload on-board MILANI CubeSat for HERA Space Mission for the study and characterization of Didymos binary system
Palomba, Ernesto; Dirri, Fabrizio; Longobardo, Andrea; Gisellu, Chiara; Biondi, David; Nardi, Enrico; Zampetti, Emiliano; Scaccabarozzi, Diego; Corti, Marco Giovanni

B0.2-0008-24 11:30 - 11:45

Thermal Infrared Multiband Imager TIRI for Planetary Missions.
Okada, Tatsuaki Team: Hera TIRI Team p. 451

B0.2-0009-24 11:45 - 12:00

MAXELS: A multi-sensor rover payload for in-situ resource evaluation
Perkins, Joe; Kirkpatrick, Molly; Munday, Lance; Ganly, Brianna; Webster, Jack; Shaw, Matthew

B0.2-0010-24 12:00 - 12:15

MEMS Based Fabry-Perot Interferometers for In-Situ Material Characterization
Grott, Matthias; Knollenberg, Joerg; Großmann, Toni; Wecker, Julia; Martin, Jörg; Ihring, Andreas; Jung, Boris; Vasiliou, Konstantinos; Helbert, Jorn

B0.2-0011-24 12:15 - 12:30

Advancing Planetary In situ Exploration Through Innovative Instrumentation: The Phoenix Portable Combined Raman-LIBS BB1 Spectrometer
Pérez, Carlos; Moral Inza, Andoni G.; Seoane, Laura; Rodriguez, Pablo; Rodriguez Prieto, Jose Antonio; Zafra, Jesús; Benito Parejo, Marina; Santamaria Baeza, Pilar; López, Ivan; Prieto-Ballesteros, Olga

Lunch Break

Chair: Gisellu, Chiara
Room: EC1-216

B0.2-0012-24 15:00 - 15:15

Moons And Jupiter Imaging Spectrometer (MAJIS) on Jupiter Icy Moons Explorer (JUICE): Status of the instrument after launch and future activities
Poulet, François; Piccioni, Giuseppe; Langevin, Yves; Dumesnil, Cydalise; Carlier, Vincent; Tommasi, Leonardo Team: MAJIS team p. 454

B0.2-0013-24 15:15 - 15:30

Compact AOTF-based NIR imaging spectrometers for the exploration of the Solar System
Pilorget, Cedric; Hamm, Vincent; Bibring, Jean-Pierre; Royer, Clement

B0.2-0014-24 15:30 - 15:45

Demonstration Breadboard of a Miniaturized Single Photon Detection Laser Altimeter for Small Satellite Applications
Althaus, Christian; Lingenauber, Kay; Binger, Jan; Hüttig, Christian; Grott, Matthias; Hussmann, Hauke; Meire, Stella; Bartholomäus, Julian; Reinert, Steffen; Werner, Philipp; Becker, Christoph; Affatato, Vincent

B0.2-0015-24 15:45 - 16:00

VenSAR: Radar Exploration of Venus in the Next Decade
Hensley, Scott; Ahmed, Razi; Carter, Lynn; Byrne, Paul; Kiefer, Walter; Mason, Philippa; Martin, Jan; Brown, Shannon; Misra, Sidharth

B0.2-0016-24 16:00 - 16:15

The design review of High-Speed Digital Fluxgate Magnetometer
Lee, Seungmin; Park, Dongjin; Jang, Yunho; Kang, Hyeonji; Kim, Juhyeong; Jin, Ho

B0.2-0017-24 16:15 - 16:30

The Preliminary test of Search-coil magnetometer system with ASIC devise
Jang, Yunho; Kang, Hyeonji; Lee, Seungmin; Jin, Ho; Kim, Jinsang; Chang, Ikjoon; Song, Ickhyun; Kim, Taeyeong; Kwon, Yonghwan; Kim, Khan-Hyuk; Kim, Minjae

Coffee Break

Chair: Shanmugam, M.
Room: EC1-216

B0.2-0018-24 17:00 - 17:15

The Design of Magnetometer Instrument on the Lunar Surface
Kim, Juhyeong; Jin, Ho; Park, Hyeonhu; Lee, Seungmin; Jang, Yunho; Lee, Junhyun; Jo, Wooin; Kang, Hyeonji; Lee, Hyojeong; Lee, Seongwhan; Choi, Young-Jun; Sim, Chae Kyung; Lee, Dukhang; Baek, Seul-Min; Shin, Jehyuck

B0.2-0019-24 17:15 - 17:30

Development of miniature XRF payload for ISRU in the lunar environment
Kirkpatrick, Molly; Perkins, Joe; Mcnally, Clint; Shaw, Matthew; Reinhard, Shane; Webster, Jack; Munday, Lance; Voss, Sander; Ganly, Brianna

B0.2-0020-24 17:30 - 17:45

Development of the Lunar Dielectric Analyzer (LDA)
Miyamoto, Hirdy; Kobayashi, Makito; Watanabe, Masahito; Himeno, Takehiro; Niihara, Takafumi; Usui, Tomohiro; Asphaug, Erik; Culton, John; Nakauchi, Yusuke; Nagaoka, Hiroshi; Saiki, Kazuto

B0.2-0021-24 17:45 - 18:00

Heterodyne OH Lunar Miniature Spectrometer (HOLMS), a miniature ultra-sensitive UV spectrometer for future lunar and planetary missions
Hosseini, Sona; Paxton, Larry; Gronoff, Guillaume; Davidsson, Bjorn; Hendrix, Amanda; Nikzad, Shouleh; Colaprete, Anthony

B0.2-0022-24 18:00 - 18:15

Design of an image acquisition and processing system for a panoramic camera (PANCAM) for the Earth-Moon-Mars (EMM) project
Martini, Paolo; Pernechele, Claudio; Emanuele, Simioni; Greggio, Davide; Corti, Marco Giovanni; Scaccabarozzi, Diego; Saggin, Bortolino; Lessio, Luigi; Esposito, Francesca; D'amico, Fabio; Cortesi, Ugo; Gai, Marco; Argan, Andrea; Donnarumma, Immacolata; Turchi, Alessandro

B0.2-0023-24 18:15 - 18:30

A Lunar Comet/Asteroid Spectroscopy Telescope (LCAST) – Automated Operations & Scheduling.
Bauer, James; Hibbitts, Karl; Protopapa, Silvia; Rivkin, Andrew

Sun, Jul 14, 2024

B1.1 Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense

Main Scientific Organizer: Milam, Stefanie
Deputy Organizer: Palomba, Ernesto

Bennu and Ryugu

Chair: Abell, Paul
Room: EC1-215

B1.1-0001-24 09:00 - 09:30 (solicited)

Two F-type asteroids Ryugu and Bennu - context from remote-sensing and telescope observations
Tatsumi, Eri; Vilas, Faith; de Leon, Julia; Sugita, Seiji; Yumoto, Koki

B1.1-0002-24 09:30 - 10:00 (solicited)

What have we learned from C-type asteroid (162173) Ryugu?
Tachibana, Shogo

B1.1-0003-24 10:00 - 10:15

Organic molecules in carbonaceous asteroid Ryugu
Naraoka, Hiroshi; Takano, Yoshinori; Dworkin, Jason Team: The Hayabusa2-Initial-Analysis SOM and CORE teams p. 459

B1.1-0004-24 10:15 - 10:30

A global characterization of pristine Ryugu samples with the NIR hyperspectral microscope MicrOmega within the ISAS Curation Center and perspectives for the Bennu samples
Pilorget, Cedric; Okada, Tatsuaki; Bibring, Jean-Pierre; Hamm, Vincent; Loizeau, Damien; Brunetto, Rosario; Le-Pivert-Jolivet, Tania; Yada, Toru; Yogata, Kasumi; Hatakeda, Kentaro; Usui, Tomo; Jiang, Te; Mahlke, Max; Furukawa, Soichiro

Coffee Break

Bennu and Ryugu

Chair: Palomba, Ernesto
Room: EC1-215

B1.1-0005-24 11:00 - 11:30 (solicited)

Initial Analyses of Asteroid Bennu Samples Returned by the NASA OSIRIS-REx Mission
Parker, Eric; Connolly Jr., Harold C.; Lauretta, Dante

B1.1-0006-24 11:30 - 11:50

Photometry of Ryugu and SCI crater as inferred by ONC images
Longobardo, Andrea; Angrisani, Marianna; Palomba, Ernesto; Dirri, Fabrizio; Yokota, Yasuhiro; Kouyama, Toru; Amodio, Angelo; Olivieri, Angelo

B1.1-0007-24 11:50 - 12:10

VIS-NIR spectral analysis of (162173) Ryugu analogues mixtures and carbonaceous chondrites meteorites in preparation to laboratory ion-irradiation experiments
Dirri, Fabrizio; Longobardo, Andrea; Palomba, Ernesto; Galiano, Anna; Rubino, Stefano; Angrisani, Marianna; Gisellu, Chiara; Olivieri, Angelo; Amodio, Angelo; Maturilli, Alessandro; Alemanno, Giulia

Lunch Break

Planetary Defense (DART)

Chair: Abell, Paul
Room: EC1-215

B1.1-0008-24 15:00 - 15:30 (solicited)

The Double Asteroid Redirection Test (DART): A Crash Course in Planetary Defense
Rivkin, Andrew; Chabot, Nancy; Cheng, Andrew

B1.1-0009-24 15:30 - 15:45

The pre-impact search for further Didymos natural satellites using DART and LICIACube image
Bertini, Ivano; Della Corte, Vincenzo; Rossi, Alessandro; Barnouin, Olivier; Beccarelli, Joel; Chabot, Nancy; Cheng, Andrew; Deshapriya, J. D. P.; Dotto, Elisabetta; Farnham, Tony; Hasselmann, Pedro Henrique; Ivanovski, Stavro; Lucchetti, Alice; Mazzotta Epifani, Elena; Pajola, Maurizio; Palumbo, Pasquale; Rivkin, Andrew; Tusberti, Filippo; Zinzi, Angelo; Amoroso, Marilena; Brucato, John Robert; Campo Bagatin, Adriano; Capannolo, Andrea; Ceresoli, Michele; Cremonese, Gabriele; Dall'ora, Massimo; Gai, Igor; Gomez Casajus, Luis; Ieva, Simone; Impresario, Gabriele; Lasagni Manghi, Riccardo; Lavagna, Michèle Roberta; Lombardo, Marco; Modenini, Dario; Perna, Davide; Pirrotta, Simone; Poggiali, Giovanni; Tortora, Paolo; Trigo-Rodriguez, Josep; Zannoni, Marco; Zanotti, Giovanni

B1.1-0010-24 15:45 - 16:00

DUST CLUMPS DYNAMICS OF THE DIMORPHOS EJECTA PLUME
Ivanovski, Stavro; Hasselmann, Pedro Henrique; Zanotti, Giovanni; Bertini, Ivano; Deshapriya, J. D. P.; Lucchetti, Alice; Pajola, Maurizio; Perna, Davide; Poggiali, Giovanni; Dotto, Elisabetta; Della Corte, Vincenzo; Ieva, Simone; Herreros, M.i.; Ormö, Jens; Ferrari, Fabio; Li, Jian-Yang; Amoroso, Marilena; Pirrotta, Simone; Zinzi, Angelo; Brucato, John R.; Capannolo, Andrea; Ceresoli, Michele; Cremonese, Gabriele; Dall'ora, Massimo; Gai, Igor; Gomez Casajus, Luis; Gramigna, Edoardo; Impresario, Gabriele; Lasagni Manghi, Riccardo; Lavagna, Michèle Roberta; Lombardo, Marco; Marzari, Francesco; Mazzotta Epifani, Elena; Modenini, Dario; Palumbo, Pasquale; Rossi, Alessandro; Tortora, Paolo; Tusberti, Filippo; Zannoni, Marco; Fahnestock, Eugene; Farnham, Tony; Hirabayashi, Masatoshi; Raducan, Sabina; Soldini, Stefania; Luther, Robert

B1.1-0011-24 16:00 - 16:15

Characterizing the Long-Term Dynamical Evolution of Binary Asteroid Systems
Cueva, Rachel; Mcmahon, Jay

B1.1-0012-24 16:15 - 16:30

Characteristics of orbits of near-Earth asteroids
Yoshikawa, Makoto

Coffee Break

Planetary Defense (Hera)

Chair: Palomba, Ernesto
Room: EC1-215

B1.1-0013-24 17:00 - 17:30 (solicited)

The ESA Hera mission to the near-Earth asteroid binary (65803) Didymos: documentation of the NASA DART impact and investigation of the physical and dynamical properties of the binary system
Michel, Patrick; Küppers, Michael; Carnelli, Ian; Martino, Paolo Team: Hera Team p. 451

B1.1-0014-24 17:30 - 17:45

Radar tomography of asteroid deep interior. JuRa / HERA to Didymos and Ra proposed to APOPHIS
Herique, Alain; Plettemeier, Dirk; Kofman, Wlodek; Michel, Patrick Team: The JuRa Team, The DROID Team and The RAMSES Team p. 459

B1.1-0015-24 17:45 - 18:00

Rapid Apophis Mission for Space Safety (RAMSES): ESA's mission study of an Apophis rendezvous during its close encounter with Earth in 2029
Martino, Paolo; Michel, Patrick; Küppers, Michael; Carnelli, Ian

B1.1-0016-24 18:00 - 18:15

THE OSIRIS–APEX MISSION TO APOPHIS.
Polit, Anjani; DellaGiustina, Daniella; Nolan, Michael; Golish, Dathon; Moreau, Michael; Simon, Amy Team: APEX team p. 448

B1.1-0017-24 18:15 - 18:30

Potential Future Missions for NASA's Janus Spacecraft
Scheeres, Daniel; Bierhaus, Beau; May, Lisa Team: Janus Mission Science and Development Team p. 453

Sun, Jul 14, 2024

B3.1 Lunar Science and Exploration

Main Scientific Organizer: Bhatt, Megha
Deputy Organizer: Foing, Bernard H.

KPLO Overview

Chair: Foing, Bernard H.
Room: EC1-217

B3.1-0001-24 09:00 - 09:15 (solicited)

KPLO Nominal mission operation results and extended mission preparation
Jeon, Moon-Jin; Kim, Eunhyeuk; Kim, Dong Gyu

B3.1-0002-24 09:15 - 09:30

Investigation of Natural Radioactive Elemental Maps of U, K, and Th by the KPLO Gamma-Ray Spectrometer
Kim, Kyeong; Kim, Suyeon; Hong, Ik-Seon; Park, Junghun; Choi, Yi Re; Kim, Yong-Kwon; Park, Kilsoon; Lee, K. B.

B3.1-0003-24 09:30 - 09:45

A Year of PolCam Operations on Danuri
Choi, Young-Jun; Kim, Sungsoo; Jeong, Minsup; Baek, Kilho; Moon, Bongkon; Lee, Dukhang; Sim, Chae Kyung; Kang, Kyungin; Koo, Bonju

B3.1-0004-24 09:45 - 10:00

KPLO high resolution camera LUTI image product generation and public release
Yim, Jo Ryeong; Kim, Mijung; Kim, Seungwoo; Kim, Dong Gyu

B3.1-0005-24 10:00 - 10:15

Enabling Lunar Magnetic Field Analysis: The Application of WAIC-UP for Spacecraft Magnetic Field Interference Removal in the KPLO Mission
Hoffmann, Alex; Jo, Wooin; Jin, Ho; Garrick-Bethell, Ian; Kim, Khan-Hyuk; Moldwin, Mark

B3.1-0006-24 10:15 - 10:30

ShadowCam – One Year In The Shadows
Robinson, Mark; Mahanti, Prasun; Bussey, David B.; Carter, Lynn; Denevi, Brett; Estes, Nicholas; Humm, David; Kinczyk, Mallory; Li, Shuai; Lucey, Paul; Mazarico, Erwan; Ravine, Michael; Speyerer, Emerson; Wagner, Robert; Willams, Jean-Pierre

Coffee Break

KPLO Recent Outcomes

Chair: Kim, Kyeong
Room: EC1-217

B3.1-0007-24 11:00 - 11:15

Investigation of Electrical Conductivity of the Uppermost Layer of the Moon by KMAG Farside Observation
Jo, Wooin; Garrick-Bethell, Ian; Jin, Ho; Fatemi, Shahab; Poppe, Andrew; Park, Hyeonhu; Kim, Khan-Hyuk

B3.1-0008-24 11:15 - 11:30

Lunar demagnetized craters suggest magnetized ejecta deposits from large impact basins
Park, Hyeonhu; Garrick-Bethell, Ian; Johnson, Brandon Charles; Jin, Ho

B3.1-0009-24 11:30 - 11:45

Low-energy gamma rays offer new insights into the volatiles and rare earth elements on the Moon
Yamashita, Naoyuki; Prettyman, Thomas; Kim, Suyeon; Choi, Yi Re; Kim, Kyeong

B3.1-0010-24 11:45 - 12:00

Investigation of Lunar Polar Regions using ShadowCam Mosaics
Grieser, Seth; Henriksen, Megan; Wagner, Robert; Mahanti, Prasun; Manheim, Madeleine; Robinson, Mark

B3.1-0011-24 12:00 - 12:15

Shadowed Does Not Mean Dark: Brightness in Lunar Permanent Shadows
Wagner, Robert; Boyd, Aaron; Mahanti, Prasun; Robinson, Mark

B3.1-0012-24 12:15 - 12:30

Slopes from ShadowCam Digital Terrain Models of Permanently Shadowed Crater Floors
Manheim, Madeleine; Henriksen, Megan; Mahanti, Prasun; Robinson, Mark

Lunch Break

KPLO Shadowcam: Seeing the unseen yet

Chair: Robinson, Mark
Room: EC1-217

B3.1-0013-24 15:00 - 15:15

Impact ejecta at the lunar south pole: Comparisons between ShadowCam and radar data
Carter, Lynn; Robinson, Mark; Denevi, Brett; Kinczyk, Mallory

B3.1-0014-24 15:15 - 15:30

Light Cues to Subpixel Temperature Characterization in the Permanently Shadowed Regions
Mahanti, Prasun; Willams, Jean-Pierre; Humm, David; Lucey, Paul; Robinson, Mark; Wagner, Robert

B3.1-0015-24 15:30 - 15:45

Searching for water ice exposed on the surface of lunar permanently shaded regions (PSRs) using ShadowCam images
Li, Shuai; Robinson, Mark; Denevi, Brett; Manheim, Madeleine; Wagner, Robert; Speyerer, Emerson; Mahanti, Prasun; Mazarico, Erwan Team: ShadowCam p. 457

B3.1-0016-24 15:45 - 16:00

Analyses of Low Latitude Permanently Shadowed Regions
Bussey, Ben; Speyerer, Emerson; Willams, Jean-Pierre

B3.1-0017-24 16:00 - 16:15

Interpreting the darkness: Equatorial ShadowCam images shed light on permanent shadows
Speyerer, Emerson; Robinson, Mark; Carter, Winston; Denevi, Brett; Martin, Anna

B3.1-0018-24 16:15 - 16:30

Assessing Albedo Variations at Possible Water Ice Bearing Regions Using ShadowCam Data
Ando, Jordan; Li, Shuai; Robinson, Mark; Wagner, Robert

Coffee Break

Realizing Lunar Habitability

Chair: Wöhler, Christian
Room: EC1-217

B3.1-0019-24 17:00 - 17:15

Introduction to Development of Core Technology for the Construction of Lunar Habitation
Chung, Joon Soo; Kim, Hansaem; Chae, Ji Yong; Kim, Hyungdo; Yang, Hyeonjeong; Park, Sanghee; Kim, Sangheon

B3.1-0020-24 17:15 - 17:30

Formulating Lunar Habitat Construction Strategy through International Collaboration
Chae, Ji Yong; Choi, Young-Han; Chung, Joon Soo; Kim, Hansaem; Cheo, Gyeong-Cheol; Kim, Hong-Seop; Cho, Hyun-Mi

B3.1-0021-24 (WITHDRAWN) 17:30 - 17:45

A Roadmap for the Development of Space Habitats and Surface Construction Technologies in South Korea
Kim, Hansaem; Chung, Joon Soo; Chae, Ji Yong; Seo, Dong-Goo; Cheo, Gyeong-Cheol; Kim, Hong-Seop; Cho, Hyun-Mi; Choi, Young-Han

B3.1-0022-24 17:45 - 18:00

A Study on the Planning and Design of the Space Habitats Using the Design Matrix
Yang, Hyeonjeong; Seo, Dong-Goo; Kim, Bongchan; Chung, Joon Soo; Kim, Hansaem

B3.1-0023-24 18:00 - 18:15

Towards Sustainable Lunar Exploration: An Interdisciplinary Analysis of NASA's Commercial Lunar Payload Services Program
Khan, Nadia; Elvis, Martin; Castillo-Rogez, Julie Team: MIT,JPL, Harvard-Smithsonian p. 454

B3.1-0024-24 18:15 - 18:30
News from ILEWG, LUNEX EuroMoonMars & EuroSpaceHub
Foing, Bernard H. Team: ILEWG LUNEX EuroMoonMars, ArtMoonMars, Space Renaissance, & EuroSpaceHub teams 2024 p. 452

Sun, Jul 14, 2024

B5.2 Gas Giants and Icy Giants with their Systems

Main Scientific Organizer: Solomonidou, Anezina
Deputy Organizer: Nixon, Conor

Chair: Solomonidou, Anezina
Room: EC1-218

B5.2-0001-24 09:00 - 09:20 (solicited)
Limits on the rock mass fraction inside Uranus using 40Ar measurements: the importance of primordial argon
Lunine, Jonathan; Nimmo, Francis; Stixrude, Lars; Zahnle, Kevin

B5.2-0002-24 09:20 - 09:35
Probing the inner depths: a study of the interior complexity of the "ice" giants Uranus and Neptune
Ramírez, Vanesa; Miguel, Yamila; Howard, Saburo

B5.2-0003-24 (WITHDRAWN) 09:35 - 09:50
Science objectives of JAXA's OPENS-0 mission concept to Saturn's rings
Hyodo, Ryuki; Yano, Hajime; Ozaki, Naoya; Funase, Ryu Team: OPENS Program Concept Study Team p. 456

B5.2-0004-24 (WITHDRAWN) 09:50 - 10:05
Space Weathering Provides a Lower Limit on the Age of Saturn's Rings
Esposito, Larry W.

B5.2-0005-24 (WITHDRAWN) 10:05 - 10:20
The fine structure of Titan's induced magnetoshere as observed by Cassini during the T36 flyby
Kim, Konstantin; Modolo, Ronan; Coates, Andrew; Edberg, Niklas J. T.; Wilson, Robert; Wahlund, Jan-Erik; Desai, Ravindra; Regoli, Leonardo; Vigren, Erik

Coffee Break

Chair: Nixon, Conor
Room: EC1-218

B5.2-0006-24 11:00 - 11:15
Particle Environment Package (PEP) for the JUICE mission: current status
Barabash, Stanislav; Brandt, Pontus; Wurz, Peter; Clark, George; Fraenz, Markus; Mitchell, Donald; Shimoyama, Manabu; Wieser, Martin Team: PEP Team p. 456

B5.2-0007-24 (WITHDRAWN) 11:15 - 11:30
Bright bolides in Jupiter in 2020-2024: Improving estimations of impact rates on the Jupiter System
Hueso, Ricardo; Delcroix, Marc; Sanchez-Lavega, Agustin; Sanchez, Mikel

B5.2-0008-24 11:30 - 11:45
What determines the strength and extent of the equatorial zonal flows on Jupiter and Saturn?
Galanti, Eli; Duer, Keren; Kaspi, Yohai

B5.2-0009-24 11:45 - 12:00
The Non-Dipolar Magnetic Field of Jupiter and Implications for Particle Motion Near Non-Dipolar Bodies
Connerney, John

B5.2-0010-24 12:00 - 12:15
Zonal winds of Jupiter based on Cassini VIMS observations
Ma, Shenghan; Wang, Yuming

Sun, Jul 14, 2024

B5.3 Ocean Worlds: Past, Present, and Future

Main Scientific Organizer: Cable, Morgan
Deputy Organizer: Solomonidou, Anezina

Room: EC1-218

B5.3-0001-24 15:00 - 15:30 (solicited)
Antarctica as a reservoir of planetary analogue environments
Pacelli, Claudia

B5.3-0002-24 (WITHDRAWN) 15:30 - 15:45
Samples from hypersaline Tirez lake (La Mancha, Spain) as chemical analogues of Europa and Enceladus material to test the capability of gas chromatography mass spectrometry for in situ analysis
Szopa, Cyril; Szopa, Cyril; Moulay, Valentin; Freissinet, Caroline; Buch, Arnaud; Gomez-Gomez, Felipe

B5.3-0003-24 15:45 - 16:00
Frozen Frontiers: TRIPLE's AstroBioLab and the Quest for Extraterrestrial Life
Tepecik, Atakan; Digel, Ilya

B5.3-0004-24 16:00 - 16:15
CALICO - a Mission Proposal to Explore Ceres In Situ
Schroeder, Stefan; Hagermann, Axel; Buchwald, Robert; Bründl, Tara-Marie; Küppers, Michael; Benkhoff, Johannes Team: CALICO Consortium p. 448

B5.3-0005-24 16:15 - 16:30
A search for water vapor plumes on Europa using SUBARU/IRCS
Kimura, Jun; Matsuo, Taro; Kobayashi, Hitomi; Ikeda, Yuji; Yoshioka, Kazuo; Takagi, Seiko; Ida, Shigeru

Coffee Break

Room: EC1-218

B5.3-0006-24 17:00 - 17:15
Predicting the Habitability of Icy Moons with Geochemical Models of Water-Meteorite Interactions
Park, Nuri; Shock, Everett

B5.3-0007-24 17:15 - 17:30

The Habitability of Hydrocarbon Words: Titan and Beyond
Lopes, Rosaly; Malaska, Michael; Vance, Steven; Hodyss, Robert; Meyer-Dombard, D'Arcy; Fagents, Sarah Team: Titan NAI Team p. 460

B5.3-0008-24 17:30 - 17:45

The Structure and Evolution of Titan's Daytime Planetary Boundary Layer
Rafkin, Scot; Soto, Alejandro; Chin Canche, Guillermo

B5.3-0009-24 (WITHDRAWN) 17:45 - 18:00

Organics Increase the Habitable Pore Space of Enceladus Analog Ices
Phillips-Lander, Charity; Gonzales, Nadia; Lamm, Sarah; Marshall, C.

B5.3-0010-24 18:00 - 18:15

From Voyager and Galileo to Juice: potential cryovolcanic regions on Ganymede
Solomonidou, Anezina; Stephan, Katrin; Malaska, Michael; Ntinos, Christos; Soderlund, Krista; Valenti, Marty; Lucchetti, Alice; Kalousova, Klara; Lopes, Rosaly; Witasse, Olivier

B5.3-0011-24 18:15 - 18:30

Europa's Seafloor is Likely Mechanically Strong and Geologically Inert
Byrne, Paul; Dawson, Henry; Klimczak, Christian; Regensburger, Paul; Vance, Steven; Melwani-Daswani, Mohit; Hemingway, Doug; Foley, Bradford; Elder, Catherine; Green, Austin; German, Christopher; Sherwood Lollar, Barbara

Sun, Jul 14, 2024

C0.2 Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies

Main Scientific Organizer: Rees, David
Deputy Organizer: Kosch, Michael

Room: EC1-311

C0.2-0001-24 11:00 - 11:20

Development of High Frequency Coherent Scattering Radar Chain in China
Zhang, Jiaojiao; Wang, Chi Team: HF radar team of NSSC p. 452

C0.2-0002-24 11:20 - 11:40

In-situ and Remote-sensing Observations of Plasma Density, Composition, and Irregularities in the Topside Ionosphere on Swarm-E - Enhanced Polar Outflow Probe (e-POP)
Yau, Andrew W.; Howarth, Andrew; Langley, R; Watson, Chris

C0.2-0003-24 11:40 - 12:00

MosGIM2: open source code for multi-GNSS dual-layer global ionospheric TEC mapping and GEC estimation
Padokhin, Artem; Andreeva, Elena; Yasyukevich, Yury; Vesnin, Artem

C0.2-0004-24 12:00 - 12:20

SPIDER-2 Sounding Rocket: Electromagnetic fields and plasma measurements in Pulsating Aurora
Perez-Coll Jimenez, Judit; Ivchenko, Nickolay; Sergienko, Tima; Strelnikov, Boris; Whiter, Daniel; Hedin, Jonas; Brandstrom, Urban; Giono, Gabriel

Coffee Break

Room: EC1-311

C0.2-0005-24 15:00 - 15:20

Mapping the Total Electron Content (TEC) over Ecuador
Lopez, Ericson

C0.2-0006-24 15:20 - 15:40

Automatic detection of whistler waves in the top-side ionosphere: a physical based method
Recchiuti, Dario; Battiston, Roberto; Papini, Emanuele; D'angelo, Giulia; Diego, Piero; Ubertini, Pietro; Neubüser, Coralie; Follega, Francesco Maria; Burger, William; Piersanti, Mirko

C0.2-0007-24 (WITHDRAWN) 15:40 - 16:00

M-Matisse Crosslink experiment MaCro: an intersatellite radio link for the sounding of the Martian atmosphere
Paetzold, Martin; Andert, Tom; Imamura, Takeshi; Ando, Hiroki; Genova, Antonio; Hahn, Matthias; Noguchi, Katsuyuki; Oschlisniok, Janusz; Peter, Kerstin; Tellmann, Silvia; Sanchez - Cano, Beatriz; Leblanc, Francois

C0.2-0008-24 16:00 - 16:20

Sounding Rocket and Satellite Experiment of IAMMAP Instrument Consisting of Self-Calibratable Plasma Prove and Precision Magnetometer
Ryu, Kwangsun; Lee, Seunguk; Kim, Jinkyu; Park, Suhwan; Hong, Jimin; Cha, Wonho; Koo, Bonju; Park, Seong-Og; Choi, Dooyoung; Choi, Cheong Rim; Shin, Yoon; Youk, Sangwoo

Lunch Break

Room: EC1-311

C0.2-0009-24 17:00 - 17:20

Simultaneous observations of field aligned structures using ionosonde and LOFAR radio telescope
Verhulst, Tobias; Mevius, Maaijke

C0.2-0010-24 17:20 - 17:40

The Middle Latitude Agile high-frequency Radar Group for Ionosphere Observations
Lan, Ailan; Yan, Jingye; Deng, Xiang; Sun, Lingchen; Zhang, Jiaojiao

C0.2-0011-24 17:40 - 17:55

A space radiation monitor design for sounding rocket flights
Demirköz, Melahat Bilge; Aksöz, Gupse; Arslan, Mehlika Zeynep; Demircan, Oğuz Han Bahadır; Düyen, Hazal; Eldem, Erdem Han; Kılıç, Uğur

C0.2-0012-24 17:55 - 18:15

Limb temperature observations in the mesosphere
Da Costa, Pedro; Keckhut, Philippe; Hauchecorne, Alain; Meftah, Mustapha; Clavier, Cannelle; Tufel, Nicolas; Mangin, Antoine

Coffee Break

Room: EC1-311

C0.2-0013-24 09:00 - 09:30 (solicited)

The Atmospheric Waves Experiment (AWE)
Taylor, Michael; Scherliess, Ludger; Pautet, Pierre-Dominique; Zhao, Yucheng; Lamborn, Burt; Latvakoski, Harri; Cantwell, Greg; Sevilla, Pedro; Syrstad, Erik; Forbes, Jeffrey M; Eckermann, Steve; Fritts, David; Janches, Diego; Liu, Hanli; Snively, Jonathan

C0.2-0014-24 09:30 - 09:50 (solicited)

Observation of Atmospheric ELVES and Their Multiple Rings by Mini-EUSO Detector onboard ISS
Plebaniak, Zbigniew Team: The JEM-EUSO Collaboration p. 459

C0.2-0015-24 09:50 - 10:10

The global observation of the atmospheric transients and airglow by the FORMOSAT-8A science mission
Chen, Alfred Bing-Chih; Lin, Charles; Chu, Shu-Chun; Yang, Yi; Liu, Ted Wei-Tai; Chang, Kuo-Chih; Wu, Ting-Jhou; Lin, Jia-Ting; Chen, Shih-Ping

C0.2-0016-24 10:10 - 10:30 (solicited)

Novel principles and technologies for near-infrared static interference imaging of Mars atmospheric wind field
Zhang, Chunmin; Wang, Dingyi; Ward, William E.; Yan, Tingyu; Chen, Zeyu; Wang, Yanqiang; He, Yifan; Lu, Yao

Sun, Jul 14, 2024

C1.3 Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources

Main Scientific Organizer: Kwak, Young-Sil
Deputy Organizer: Kil, Hyosub

IT response to geomagnetic storms and solar eclipse

Chair: Kil, Hyosub
Room: EC1-313

C1.3-0001-24 15:00 - 15:20 (solicited)

Ionospheric responses from subauroral to equatorial latitudes to prompt storm-time electric fields: scenarios of intense and frequently subtle global impacts
Zhang, Shun-Rong; Aa, Ercha; Nishimura, Yukitoshi; Vierinen, Juha; Erickson, Philip; Lyons, Larry; Knipp, Delores; Coster, Anthea

C1.3-0002-24 15:20 - 15:35

Response of OI630.0 and OI557.7 nm dayglow emissions measured by ICON/MIGHTI to a moderate geomagnetic storm
Gao, Hong; Xu, Jiyao; Zhu, Yajun

C1.3-0003-24 15:35 - 15:55 (solicited)

Thermosphere and Ionosphere Responses to the November, 20, 2003 Extreme Storm Event
Wang, Wenbin; Lin, Dong; Wu, Haonan; Merkin, Viacheslav

C1.3-0004-24 15:55 - 16:10

Estimation of Spherical Satellite Drag Coefficients in the Upper Thermosphere during Different Geomagnetic Conditions
Wang, Xin; Luo, Bingxian; Liu, Siqing; Gong, Jiancun; Aa, Ercha; Cai, Lei; Wang, Ronglan; Ren, Tingling; Miao, Juan

C1.3-0005-24 16:10 - 16:30

Assessment of Ionospheric Perturbations during Total Solar Eclipses
Sun, Andrew K.; Kil, Hyosub; Chang, Hyeyeon; Lee, Woo Kyoung; Lee, Jiyun

Coffee Break

ITM mission concepts

Chair: Kwak, Young-Sil
Room: EC1-313

C1.3-0006-24 17:00 - 17:20 (solicited)

Importance of satellite constellation to the observations of multi-scale temporal and spatial structures in the ionosphere-thermosphere system
Deng, Yue; Hong, Yu; Cai, Lei; Ridley, Aaron; Rowland, Douglas

C1.3-0007-24 17:20 - 17:35

ROKITS: Advancing Ionosphere and Upper Atmosphere Imaging with a Space-borne Wide-field Auroral/Airglow Imager
Lee, Woo Kyoung; Choi, Seonghwan; Roh, Kyoung-Min; Kwak, Young-Sil; Lee, Chanhaeng; Kil, Hyosub; Paxton, Larry; Jee, Geonhwa Team: ROKITS Team p. 457

C1.3-0008-24 17:35 - 17:55 (solicited)

Far Ultraviolet Remote Sensing: Recent results and applications to the RoK/US ATHENA mission
Paxton, Larry; Kil, Hyosub; Cantrall, Clayton; Schaefer, Robert; Zhang, Yongliang; Kwak, Young-Sil; Lee, Woo Kyoung Team: SSUSI and GUVI p. 458

C1.3-0009-24 17:55 - 18:10

A new upper atmosphere mission: Aurora and Thermosphere: Energetics, Neutrals, and Atmosphere (ATHENA)
Kil, Hyosub; Paxton, Larry; Lee, Woo Kyoung; Kwak, Young-Sil

C1.3-0010-24 18:10 - 18:30 (solicited)

The SandPIPR mission to understand plasma structures in the upper atmospheric transition region
Hwang, Kyoung-Joo

Sun, Jul 14, 2024

D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres

Main Scientific Organizer: Gil, Agnieszka
Deputy Organizer: Engelbrecht, Nicholas Eugene

Room: CON-101

D1.1-0001-24 09:00 - 09:30 (solicited)

Constraining the global heliospheric transport of galactic cosmic rays in solar cycles 23 and 24
Corti, Claudio; Wolniewicz, Linnea; Nikonov, Nikolay; Sadowski, Peter; Potgieter, Marius S; Bindi, Veronica

D1.1-0002-24 09:30 - 09:45

Solar modulation of galactic protons, electrons, positrons and anti-protons related to the magnetic field cycle
Ngobeni, Donald; Potgieter, Marius S; Aslam, O. P. M.; Mahlatji, Thabo; Ramokgaba, Innocentia; Ndiitwani, Dzivhuluwani Christopher; Martucci, Matteo; Palma, Francesco; Sotgiu, Alessandro; Boezio, Mirko; Munini, Riccardo; Nndanganeni, Rendani Rejoyce

D1.1-0003-24 09:45 - 10:00

A numerical study of the manifestation of the charge-sign effect in cosmic ray short term variation
Luo, Xi; Potgieter, Marius S; Zhang, Ming; Shen, Fang; Krainev, Mikhail; Ngobeni, Donald; Mikhailov, Vladimir

D1.1-0004-24 10:00 - 10:15

Modelling of the solar modulation of galactic cosmic rays with changing solar activity and polarity cycles
Ndiitwani, Dzivhuluwani Christopher; Aslam, O. P. M.; Ngobeni, Donald; Potgieter, Marius S; Ramokgaba, Innocentia; Mahlatji, Thabo; Boezio, Mirko; Munini, Riccardo; Martucci, Matteo; Sotgiu, Alessandro

D1.1-0005-24 10:15 - 10:30

New insights from modelling the solar modulation of light stable galactic cosmic ray isotopes
Ramokgaba, Innocentia; Ngobeni, Donald; Ndiitwani, Dzivhuluwani Christopher; Potgieter, Marius S; Aslam, O. P. M.; Munini, Riccardo; Boezio, Mirko; Lenni, Alex; Martucci, Matteo; Sotgiu, Alessandro; Palma, Francesco

Coffee Break

Room: CON-101

D1.1-0006-24 11:00 - 11:30 (solicited)

Turbulence, transport and sectors: cosmic rays in the heliosheath
Florinski, Vladimir; Guzman, Juan; Zhao, Lingling; Ghanbari, Keyvan; Cummings, A. C.; Hill, Matthew; Giacalone, Joe; Opher, Merav; Richardson, John

D1.1-0007-24 (WITHDRAWN) 11:30 - 11:45

Effect of non-standard diffusion on the acceleration spectra of diffusive shock acceleration
Walter, Dominik; Fichtner, Horst; Effenberger, Frederic

D1.1-0008-24 11:45 - 12:00

Efficient modeling of cosmic-ray re-acceleration
Merten, Lukas; Aerdker, Sophie; Becker Tjus, Julia

D1.1-0009-24 12:00 - 12:15

A Critical Investigation of Pitch-angle Scattering in Synthetic Magnetic Turbulence
van Den Berg, Jacobus; Engelbrecht, Nicholas Eugene; Els, Paul

D1.1-0010-24 12:15 - 12:30

Modeling anomalous transport and acceleration of high-energy particles
Aerdker, Sophie; Merten, Lukas; Effenberger, Frederic; Fichtner, Horst; Becker Tjus, Julia

Lunch Break

Room: CON-101

D1.1-0011-24 15:00 - 15:15

Numerical simulations of the Labor Day SEP event observed by Parker Solar Probe and Solar Orbiter
Chen, Xiaohang; Giacalone, Joe; Zhao, Lulu; Guo, Fan; Lario, David; Kouloumvakos, Athanasios; Sokolov, Igor; Sachdeva, Nishtha; Manchester IV, Ward; Cohen, Christina; McComas, David; Hill, Matthew; Ho, George; Mason, Glenn M.

D1.1-0012-24 15:15 - 15:30

Observations of Heavy Ions During the 5 September 2022 Solar Energetic Particle Event at Parker Solar Probe and Solar Orbiter
Leske, Richard; Xu, Zigong; Cohen, Christina; Christian, Eric; Cummings, A. C.; De Nolfo, Georgia; Desai, Mihir; Giacalone, Joe; Hill, Matthew; Labrador, Allan; McComas, David; McNutt, Ralph; Mitchell, Donald; Mitchell, John Grant; Muro, Gabriel; Rankin, Jamie; Schwadron, Nathan; Sharma, Tejaswita; Szalay, Jamey; Wiedenbeck, Mark; Romeo, Orlando; Ho, George; Rodriguez-Pacheco, Javier; Wimmer-Schweingruber, Robert

D1.1-0013-24 15:30 - 15:45

Multi-spacecraft observations of energetic particle events inside of 1 au: Measurements by Solar Orbiter, ACE and STEREO
Ho, George; Mason, Glenn M.; Allen, Robert; Kouloumvakos, Athanasios; Wimmer-Schweingruber, Robert; Rodriguez-Pacheco, Javier; Gomez-Herrero, Raul

D1.1-0014-24 15:45 - 16:00

Does the wave-particle-interaction acceleration mechanism lead to 3He-rich (3He/4He ratio 0.01) SEPs?
Zhu, Bojing

D1.1-0015-24 16:00 - 16:30 (solicited)

3D effects in the propagation of Solar Energetic Particles
Dalla, Silvia; Hutchinson, Adam; Hyndman, Ruth; Laitinen, Timo; Waterfall, Charlotte

Coffee Break

Room: CON-101

D1.1-0016-24 17:00 - 17:15

On the cosmic ray parallel mean-free-path
Strauss, Du Toit; Lang, Jaclyn; Engelbrecht, Nicholas Eugene; van Den Berg, Jacobus

D1.1-0017-24 17:15 - 17:30

Effect of the Pitch Angle Scattering Due to Alfven Wave Turbulence on the Decay Phase of CME Events
Tenishev, Valeriy; Loper, Robert

D1.1-0018-24 17:30 - 17:45

Unusually long path length for a nearly scatter-free solar particle event observed by Solar Orbiter at 0.43 au
Wimmer-Schweingruber, Robert; Yang, Liu; Kollhoff, Alexander; Gomez-Herrero, Raul; Rodriguez-Pacheco, Javier; Espinosa-Lara, Francisco; Cernuda, Ignacio; Ho, George; Mason, Glenn M.; Warmuth, Alexander; Owen, Christopher J.; Rodriguez, Luciano; Shukhobodskaia, Daria; Berger, Lars; Kühl, Patrick; Heber, Bernd; Bucik, Radoslav; Malandraki, Olga

D1.1-0019-24 17:45 - 18:15 (solicited)

The Influence of the Turbulent Solar Wind on Energetic Particle Transport
Effenberger, Frederic; Luebke, Jeremiah; Wilbert, Mike; Fichtner, Horst; Grauer, Rainer

D1.1-0020-24 18:15 - 18:30
Compression Acceleration of Protons and Heavier Ions at the Heliospheric Current Sheet
Murtas, Giulia; Li, Xiaocan; Guo, Fan

Sun, Jul 14, 2024

D2.1-E3.1 Off-the-Sun-Earth-Line(OSEL) Missions

Main Scientific Organizer: Gopalswamy, Nat
Deputy Organizer: Cho, Kyungsuk

Room: CON-104

D2.1-0001-24 09:00 - 09:20 (solicited)
The 3D Solar Corona and Inner Heliosphere: A Recap of 17+ years of Imaging from the STEREO Mission
Howard, Russell; Vourlidas, Angelos

D2.1-0002-24 09:20 - 09:40
Prototype Study on Ensemble Prediction of CME Time of Arrival and Assimilating Heliospheric Imagery from Off-the-Sun-Earth-Line Missions
Zhang, Jie; Odstrcil, Dusan; Nikou, Eleni

D2.1-0003-24 09:40 - 10:00 (solicited)
Envisioning of Japan's Space Program and Future International Collaborations
Tsuneta, Saku

D2.1-0004-24 10:00 - 10:15
Estimation of Soft X-ray Fluxes of Behind-the-Limb Flares Using STEREO EUV Observations
Yashiro, Seiji; Gopalswamy, Nat; Akiyama, Sachiko; Makela, Pertti

D2.1-0005-24 10:15 - 10:30
Multi-spacecraft Observations of a Long-lasting type III Storm
Gopalswamy, Nat; Makela, Pertti; Yashiro, Seiji

Coffee Break

Room: CON-104

D2.1-0006-24 11:00 - 11:20 (solicited)
SunCHASER/L4: The mission that would enable ARTEMIS lunar exploration safety
Posner, Arik; Strauss, Du Toit Team: SunCHASER Team p. 459

D2.1-0007-24 11:20 - 11:35
Multi-Spacecraft Solar Surface Visibility Analysis
Lee, Jinsung; Ahn, Jaemyung; Cho, Kyungsuk; Posner, Arik; Hwang, Junga; Park, Sung-Hong

D2.1-0008-24 11:35 - 11:55 (solicited)
Scientific Suggestions of the Heliophysics L4 Mission by Remote-sensing Observations
Moon, Yong-jae; Cho, Kyungsuk; Park, Sung-Hong; Lim, Eun-Kyung; Kim, Rok-Soon; Song, Donguk; Jongyeob, Park; Park, Eunsu; Lee, Harim; Jeong, Hyun-Jin; Kang, Jihye; Park, Jinhye; Yi, Kangwoo; Il-Hyun, Cho; Na, Hyeonock

D2.1-0009-24 11:55 - 12:15 (solicited)
Relevance of Off-the-Sun-Earth-Line Data to Small-scale Flux Ropes and Heliospheric Current Sheets
Lee, Dae-Young; Choi, Kyung-Eun; Choi, Dooyoung; Noh, Sung Jun

D2.1-0010-24 12:15 - 12:30
Opening New Horizons with the L4 Mission: Vision and Plan
Cho, Kyungsuk

Lunch Break

Room: CON-104

D2.1-0011-24 (WITHDRAWN) 15:00 - 15:15
Benefits to Helioseismology from an Off-Sun-Earth View
Zhao, Junwei

D2.1-0012-24 15:15 - 15:35 (solicited)
The MOST mission concept
Pevtsov, Alexei Team: MOST team p. 455

D2.1-0013-24 15:35 - 15:50
The Photospheric Magnetic field Imager (PMI), an instrument for ESA's Vigil mission at L5 and potentially for an L4 mission
Solanki, Sami K.; Staub, Jan; Woch, Joachim; Feller, Alex; Fernandez-Rico, German; Gandorfer, Achim; Gizon, Laurent; Hirzberger, Johann; Schou, Jesper; Valori, Gherardo; Balaguer Jimenez, Maria; Orozco Suárez, David; Del Toro Iniesta, Jose Carlos; Albert, Kinga; Löschl, Philipp

D2.1-0014-24 15:50 - 16:10 (solicited)
The Firefly (4) Constellation: Going Above and Beyond in the Heliosphere Exploration
Raouafi, Nour E.; Berger, Thomas; Hoeksema, J. Todd; Vourlidas, Angelos; Upton, Lisa A.; Gibson, Sarah; Newmark, Jeffrey; Lepri, Susan; Hassler, Donald M.; Kinnison, James; Georgoulis, Manolis; Ho, George; Viall, Nicholeen; Harra, Louise K.; Velli, Marco; Szabo, Adam; Casti, Marta; Bourouaine, Sofiane; Jagarlamudi, Vamsee Krishna; Vievering, Juliana T.; Mason, James P.; Solanki, Sami; Fletcher, Lyndsay; Harrison, Richard; Katsukawa, Yukio; Kusano, Kanya; Owen, Christopher J.; Romoli, Marco; Wimmer-Schweingruber, Robert; Leibacher, John; Appourchaux, Thierry; Boumier, Patrick

D2.1-0015-24 16:10 - 16:30 (solicited)
Impacts of non-simultaneous global photospheric magnetic measurements on coronal and solar wind modeling
Arge, Charles; Henney, Carl J.; Jones, Shaela; Posner, Arik

Coffee Break

Room: CON-104

D2.1-0016-24 17:00 - 17:15
Omnipresent solar magnetographs
Hurlburt, Neal

D2.1-0017-24 17:15 - 17:35 (solicited)
Solar Polar Mission for Solar Interior and Heliosphere
Hotta, Hideyuki; Toriumi, Shin; Hatta, Yoshiki; Imada, Shinsuke; Tsukizaki, Ryudo; Takao, Yuki; Tabata, Kuniyoshi; Ozaki, Naoya; Nishiyama, Kazutaka; Yamasaki, Daiki; Sekii, Takashi

D2.1-0018-24 17:35 - 17:55
The Solaris Mission: A focused solar polar view from outside the ecliptic plane
Hassler, Donald M.

D2.1-0019-24 17:55 - 18:15
ASO-S mission and the early results
Su, Yang; Gan, Weiqun; Zhu, Cheng; Deng, Lei; Li, Hui; Feng, Li; Su, Jiangtao; Huang, Yu; Yuanyong, Deng; Zhang, Haiying; Chen, Bo; Zhe, Zhang; Wu, Jian

D2.1-0020-24 18:15 - 18:30
Solar Close Observation and Proximity Experiments Mission Concept
Lin, Jun

Sun, Jul 14, 2024

D2.3-E3.3 Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies

Main Scientific Organizer: Büchner, Jörg
Deputy Organizer: Hoshino, Masahiro

Room: CON-102

D2.3-0001-24 09:00 - 09:30 (solicited)
Reconnection in the Forming Heliospheric Current Sheet and Solar Wind: Theory and Parker Solar Probe Observations
Velli, Marco Team: Parker Theory Team p. 456

D2.3-0002-24 09:30 - 09:45
Observation of turbulent magnetic reconnection in the solar wind
Wang, Rongsheng; Lu, Quanming; Lu, San; Gonzalez, Walter

D2.3-0003-24 09:45 - 10:00
Anisotropic Electron Heating in Turbulence-driven Magnetic Reconnection in the Near-Sun Solar Wind
Franci, Luca; Papini, Emanuele; Del Sarto, Daniele; Micera, Alfredo; Lapenta, Giovanni

D2.3-0004-24 10:00 - 10:15
MHD SIMULATIONS OF SMALL-SCALE MAGNETIC RECONNECTION AT DIFFERENT ALTITUDES IN THE LOW SOLAR ATMOSPHERE
Zafar, Abdullah; Ni, Lei; Lin, Jun

D2.3-0005-24 10:15 - 10:30
On-disk Observation of Bidirectionally Propagating Plasma Blobs Near the Reconnection Site of a Solar Eruption
Hou, Zhenyong; Tian, Hui; Madjarska-Theissen, Maria; Chen, Hechao; Samanta, Tanmoy; Bai, Xianyong; Li, Zhentong; Su, Yang; Chen, Wei; Deng, Yuanyong

Coffee Break

Room: CON-102

D2.3-0006-24 11:00 - 11:30 (solicited)
SOLAR-C Mission and Future Plans for Magnetic Reconnection Observations
Imada, Shinsuke Team: SOLAR-C International Team p. 458

D2.3-0007-24 11:30 - 11:45
Three-dimensional particle-in-cell simulations of magnetic reconnection with a finite x-line length
Huang, Kai

D2.3-0008-24 (WITHDRAWN) 11:45 - 12:00
Unveiling the Unseen: Analyzing CD-36 3202's Light Curve and Unprecedented Long-Duration Flare
Bicz, Kamil; Falewicz, Robert; Pietras, Małgorzata

D2.3-0009-24 12:00 - 12:15
Fragmented Fine Structures in Solar Flare Ribbons observed by SO/EUI: an Possible Evidence to Turbulent Reconnection
Wang, Bitao; Cheng, Xin; Wang, Yulei; Lu, Zekun; Ding, Mingde

D2.3-0010-24 12:15 - 12:30
Three-dimensional reconnection within the solar flare current sheet: turbulent formation and fine magnetic structures
Wang, Yulei; Cheng, Xin; Ding, Mingde; Guo, Yang; Guo, Jinhan

Lunch Break

Room: CON-102

D2.3-0011-24 15:00 - 15:30 (solicited)
Magnetic Reconnection as the Driver of the Solar Wind
Raouafi, Nour E.; Stenborg, Guillermo; Seaton, Daniel; Wang, Haimin; Wang, Jiasheng; DeForest, Craig; Bale, Stuart; Drake, James; Uritsky, Vadim; Karpen, Judy; DeVore, C. Richard; Sterling, Alphonse; Horbury, Timothy; Harra, Louise K.; Bourouaine, Sofiane; Kasper, Justin; Kumar, Pankaj; Phan, Tai; Velli, Marco

D2.3-0012-24 15:30 - 15:50 (solicited)
The Search for Plasmoid-mediated Reconnection in Solar Flares
French, Ryan

D2.3-0013-24 15:50 - 16:10 (solicited)
Investigating transition region explosive events in a quiet-Sun model
Chen, Yajie; Peter, Hardi; Przybylski, Damien

D2.3-0014-24 16:10 - 16:30 (solicited)
Magnetic Reconnection of Flux Ropes during the Early Phase of Solar Flares
Su, Yingna; Ji, Haisheng

Coffee Break

Room: CON-102

D2.3-0015-24 17:00 - 17:20 (solicited)
Magnetic reconnection in the solar wind – a comparison of results from recent and historical missions
Khabarova, Olga

D2.3-0016-24 17:20 - 17:50 (solicited)
Plasma Dynamics and Nonthermal Particle Acceleration in 3D Magnetic Reconnection
Guo, Fan; Zhang, Qile; Daughton, William; Li, Hui; Li, Xiaocan

D2.3-0017-24 17:50 - 18:05
Particle Acceleration during Turbulent 3D Guide-Field Magnetic Reconnection
Hoshino, Masahiro

D2.3-0018-24 18:05 - 18:25 (solicited)

Energy partitioning of magnetic reconnection in electron-ion plasmas
Totorica, Samuel; Machida, Mami; Bhattacharjee, Amitava; Hoshino, Masahiro

Sun, Jul 14, 2024

D3.1 Highlights of Magnetospheric Plasma Physics

Main Scientific Organizer: Nykyri, Katariina
Deputy Organizer: Zelenyi, Lev

Fundamental Physical Processes in the Magnetosphere System: Review, Current Status and Future Outlook

Chair: Nykyri, Katariina
Room: CON-103

D3.1-0001-24 09:00 - 09:20 (solicited)

Collisionless Shocks: present status, unsolved questions and future outlook
Balikhin, Michael A.; Walker, Simon

D3.1-0002-24 (WITHDRAWN) 09:20 - 09:40 (solicited)

Theory and Observations of Magnetic Reconnection: Current status and unresolved questions
Hesse, Michael; Burch, James; Norgren, Cecilia; Liu, Yi-Hsin; Bessho, Naoki

D3.1-0003-24 09:40 - 10:10 (solicited)

Physics of magnetospheric boundaries: History and current status
Otto, Antonius; Ma, Xuanye

D3.1-0004-24 10:10 - 10:30 (solicited)

Van Allen Radiation Belts revisited
Shprits, Yuri; Allison, Hayley; Wang, Dedong; Haas, Bernhard

Coffee Break

Dayside Science, Space Mission Updates and Future Mission Planning

Room: CON-103

D3.1-0005-24 11:00 - 11:20 (solicited)

Recent Science Results and Future Plans for Magnetospheric Multiscale
Burch, James

D3.1-0006-24 11:20 - 11:40 (solicited)

The ESA M7 candidate mission Plasma Observatory.
Marcucci, Maria Federica; Retino, Alessandro

D3.1-0007-24 11:40 - 12:00 (solicited)

Transport paths of cold-dense plasmas in the magnetospheres
Nishino, Masaki N.

D3.1-0008-24 12:00 - 12:15 (solicited)

Soft X[U+2010]ray and ENA Imaging of the Earth's Dayside Magnetosphere: Current Status and Future Outlook for Magnetospheric Missions
Connor, Hyunju; Sibeck, David; Murphy, Kyle; Jung, Jaewoong; Walsh, Brian; Porter, Frederik; Kuntz, Kip; Sun, Tianran; Samsonov, Andrey; Forsyth, Colin; Wang, Chi; Escoubet, C. Philippe; Sembay, Steven; Carter, Jenny; Read, Andrew

D3.1-0009-24 12:15 - 12:30

A kinetic model of photoelectron transport and UV-emission for the SMILE mission
Sydorenko, Dmytro; Rankin, Robert; Liang, Jun; Donovan, Eric

Lunch Break

Magnetotail Processes and Substorms

Room: CON-103

D3.1-0010-24 15:00 - 15:20 (solicited)

Substorms: their current understanding and unresolved questions
Angelopoulos, Vassilis; Beyene, Fekireselassie; Runov, Andrei

D3.1-0011-24 15:20 - 15:35 (solicited)

Magnetotail plasma eruptions driven by magnetic reconnection and kinetic instabilities
Palmroth, Minna; Nakamura, Rumi; Pulkkinen, Tuija; Ganse, Urs; Pfau-Kempf, Yann; Koskela, Tuomas; Zaitsev, Ivan; Alho, Markku; Cozzani, Giulia; Turc, Lucile; Battarbee, Markus; Dubart, Maxime; George, Harriet; Grandin, Maxime; Horaites, Konstantinos; Osmane, Adnane; Papadakis, Konstantinos; Suni, Jonas; Tarvus, Vertti; Zhou, Hongyang

D3.1-0012-24 15:35 - 15:55 (solicited)

Scaling of ion and electron bulk heating produced by reconnection in the low Beta and high Alfvén speed regime of Earth's magnetotail
Oieroset, Marit; Phan, Tai; Drake, James; Starkey, Michael; Fuselier, Stephen; Cohen, Ian; Haggerty, Colby; Shay, Michael; Oka, M.; Gershman, Dan; Maheshwari, Kush; Zhang, Qile; Guo, Fan; Burch, James; Torbert, Roy; Strangeway, Robert J.

D3.1-0013-24 15:55 - 16:15 (solicited)

Intense Electron-scale Current Structures and associated Energy Conversion Observed in the Plasma Sheet during Propagation of High-Velocity Bulk Flows
Grigorenko, Elena; Leonenko, Makar; Malykhin, Andrei; Zelenyi, Lev; Fu, Huishan

D3.1-0014-24 16:15 - 16:30

Nature of Reconnection X-line Associated with Dissipating Earthward Flux Ropes: Observations and Implications
Poh, Gangkai; Dokgo, Kyunghwan; Sun, Weijie; Agarwala, Nitya; Hwang, Kyoung-Joo; Le, Guan; Slavin, James

Coffee Break

Particle acceleration and dynamics at Earth's magnetosphere and beyond; multi-spacecraft techniques

Room: CON-103

D3.1-0015-24 17:00 - 17:20 (solicited)

Energy Dissipation and Particle Energization in Fast Plasma Flows in the Earth's Magnetotail
Khotyaintsev, Yuri; Richard, Louis; Graham, Daniel; Sorrisovalvo, Luca; Yordanova, Emiliya

D3.1-0016-24 17:20 - 17:40 (solicited)
Enabling comparative studies of particle acceleration in planetary magnetospheres: Lessons learned from Earth and implications for future exploration
Cohen, Ian

D3.1-0017-24 17:40 - 18:00 (solicited)
An Eastward Current Encircling Mercury
Rong, Zhaojin; Shi, Zhen

D3.1-0018-24 18:00 - 18:15 (solicited)
Visualizing the Geometry of Magnetic structures Based on Multiple Spacecraft Measurements
Shen, Chao

D3.1-0019-24 18:15 - 18:30
Exploring Magnetostatic Equilibrium in Earth's Magnetosphere: An Integration of Satellite Data and Numerical Modeling
Espinoza Acosta, José Miguel; López, Rodrigo A.; Stepanova, Marina; Antonova, Elizaveta

Sun, Jul 14, 2024

E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

I. Latest results of Alpha Magnetic Spectrometer (AMS-02) onboard of the International Space Station

Chair: Seo, Eun-Suk
Room: CON-205

E1.1-0001-24 09:00 - 09:30 (solicited)
12-Year Results on Elementary Particles from the AMS Experiment on the International Space Station
Ting, Samuel

E1.1-0002-24 09:30 - 09:50
12-Year Results on Nuclei from the AMS Experiment on the International Space Station
Ting, Samuel

E1.1-0003-24 09:50 - 10:05
Unique Properties of Twelve Years Positrons and Electrons Spectra measured by AMS
Xu, Weiwei Team: AMS-02 Collaboration p. 447

E1.1-0004-24 10:05 - 10:20
Cosmic Anti-Protons and Properties of Elementary Particle Fluxes
Weng, Zhili Team: AMS-02 Collaboration p. 448

Coffee Break

II. Latest results of Alpha Magnetic Spectrometer (AMS-02) onboard of the International Space Station

Chair: Moskalenko, Igor
Room: CON-205

E1.1-0005-24 11:00 - 11:15
Origin of Cosmic Positrons and Electrons in the TeV Region
Krasnopevtsev, Dimitrii; Collaboration, Ams

E1.1-0006-24 11:15 - 11:30
Unique Features of Twelve Years of Antiproton Spectrum Measured by AMS
Tang, Zhi-Cheng; Li, Zuhao

E1.1-0007-24 11:30 - 11:45
Properties of Cosmic Deuterons Measured by the Alpha Magnetic Spectrometer
Dimiccoli, Francesco; Zuccon, Paolo; Nozzoli, Francesco

E1.1-0008-24 11:45 - 12:00
Unique Properties of Primary Cosmic Rays measured by the Alpha Magnetic Spectrometer
Wang, Zhaomin Team: AMS02 collaboration p. 448

E1.1-0009-24 12:00 - 12:15
Unique Properties of Secondary Cosmic Rays measured by the Alpha Magnetic Spectrometer
Chen, Yao; Oliva, Alberto Team: AMS02 Collaboration p. 448

E1.1-0010-24 12:15 - 12:30
Unique Properties of the 3rd Group of Cosmic Rays measured by the Alpha Magnetic Spectrometer
Robyn, Erwan; Collaboration, Ams

Lunch Break

III .Latest results of Alpha Magnetic Spectrometer (AMS-02) onboard of the International Space Station

Chair: Evenson, Paul
Room: CON-205

E1.1-0011-24 15:00 - 15:15
Properties of Cosmic Lithium and Beryllium Isotopes Measured by the Alpha Magnetic Spectrometer
Paniccia, Mercedes; Xu, Weiwei; Wei, Jiahui; Li, Manbing; Derome, Laurent Team: AMS Collaboration p. 446

E1.1-0012-24 15:15 - 15:30
Unique Properties of Daily Proton Fluxes up to 100 GV
Jia, Yi Team: AMS02 Collaboration p. 448

E1.1-0013-24 15:30 - 15:45
Unique Properties of Daily Helium Fluxes up to 100 GV
Marquardt, Johannes; Romaneehsen, Lisa; Consolandi, Cristina; Collaboration, Ams

E1.1-0014-24 15:45 - 16:00
Unique Properties of Light Nuclei Time Variation up to 60 GV Measured by the Alpha Magnetic Spectrometer
Reina Conde, Alejandro; Collaboration, Ams

E1.1-0015-24 16:00 - 16:15
Determination of Anisotropy of Elementary Particles
Velasco, Miguel Angel; Casaus, Jorge; Molero Gonzalez, Miguel; Rodríguez García, Iñaki Team: AMS Collaboration p. 447

Coffee Break

Latest results of Dark Matter Particle Explorer (DAMPLE)

Chair: Cao, Zhen
Room: CON-205

E1.1-0016-24 17:00 - 17:20 (solicited)
Eight years of the DArk Matter Particle Explorer (DAMPE) in Space
Chang, Jin

E1.1-0017-24 17:20 - 17:35
Latest advancements on the CR proton flux towards PeV energies with DAMPE
Tykhonov, Andrii

E1.1-0018-24 17:35 - 17:50
Spectral Analysis of Lithium, Beryllium and Boron Nuclides with DAMPE
Chen, Zhanfang; Parenti, Andrea; Xu, Enheng; Yue, Chuan

E1.1-0019-24 17:50 - 18:05
Latest Results on Cosmic Ray Carbon and Oxygen with the DAMPE space mission
Kyratzis, Dimitrios Team: DAMPE Collaboration p. 450

E1.1-0020-24 18:05 - 18:20
Direct Measurement of the Cosmic-Ray Iron Spectrum with the DAMPE
Xu, Zhi-Hui; Ma, Pengxiong; Yue, Chuan

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E1.6 Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations

Main Scientific Organizer: Natalucci, Lorenzo
Deputy Organizer: Branchesi, Marica

Physics of Multimessenger Transients [1]

Room: CON-110

E1.6-0001-24 09:00 - 09:30 (solicited)
Understanding Core-Collapse Supernovae
Fryer, Chris; Burns, Eric; Negro, Michela; Hungerford, Aimee

E1.6-0002-24 09:30 - 10:00 (solicited)
The Physics of Fast Radio Bursts
Zhang, Bing

E1.6-0003-24 10:00 - 10:15
The nebular origin of the persistent radio emission of FRB
Bruni, Gabriele; Piro, Luigi; Yang, Yuan Pei; Zhang, Bing

E1.6-0004-24 10:15 - 10:30
Effects of the neutrino oscillation above the neutrino-dominated accretion flows around black holes
Deesamer, Chitipat; Chainakun, Poemwai; Sreethawong, Warintorn

Coffee Break

Physics of Multimessenger Transients [2]
Room: CON-110

E1.6-0005-24 11:00 - 11:20 (solicited)
The connection between high energy neutrinos and ultra-high energy cosmic rays
Yoshida, Shigeru

E1.6-0006-24 11:20 - 11:40 (solicited)
High-energy data shed (gamma) light on the GRB prompt emission physics
Ravasio, Maria Edvige

E1.6-0007-24 (WITHDRAWN) 11:40 - 12:00 (solicited)
Tidal Disruption Events: Probes of Massive Black Holes and Stars at Low and High Redshifts
Dai, Jane

E1.6-0008-24 12:00 - 12:15
An unified understanding of some SLSNe, IGRBs, and FBOTs with a magnetar engine
Yu, Yun-Wei

E1.6-0009-24 (WITHDRAWN) 12:15 - 12:30
Neutrinos and gamma-rays from Galaxy Clusters constrained by the upper limits of IceCube
Hussain, Saqib; De Gouveia Dal Pino, Elisabete

Lunch Break

GW sources and their counterparts
Room: CON-110

E1.6-0010-24 15:00 - 15:15 (solicited)
Neutron star properties from gravitational waves and heavy ion collisions
Lee, Chang-Hwan

E1.6-0011-24 15:15 - 15:30
Hubble constant estimation via electromagnetic and gravitational-wave joint analyses
Gianfagna, Giulia; Piro, Luigi; Pannarale, Francesco; van Eerten, Hendrik; Ricci, Fulvio; Ryan, Geoffrey

E1.6-0012-24 15:30 - 15:45
Coordinated Followup Could Have Enabled the Discovery of the GW190425 Kilonova
Arcavi, Iair

E1.6-0013-24 15:45 - 16:00
Introducing PROPHET: PROspects for detecting gravitational wave PHenomena jointly with Electromagnetic Transients
Ronchini, Samuele

E1.6-0014-24 16:00 - 16:15
On the extragalactic horizon distance to gravitational radiation from core-collapse supernovae
van Putten, Maurice; Delle Valle, Massimo; Aghaei, Maryam

E1.6-0015-24 16:15 - 16:30
Studying GRBs with INTEGRAL/IBIS-PICsIT in Preparation for the Next GW-EM Counterpart observations
Rodi, James Craig; Bazzano, Angela; Ubertini, Pietro; Natalucci, Lorenzo

Coffee Break

Neutrinos and other High Energy Transients[1]
Room: CON-110

E1.6-0016-24 17:00 - 17:20 (solicited)
Prospects for Neutrino Astronomy
Rott, Carsten

E1.6-0017-24 17:20 - 17:40 (solicited)
High-energy neutrino emission associated with tidal disruption events
Hayasaki, Kimitake

E1.6-0018-24 17:40 - 18:00 (solicited)
Optical followup of transients: Insights from ePESSTO+
Chen, Janet Ting-Wan

E1.6-0019-24 18:00 - 18:15
INTEGRAL discovery of magnetar giant flare in the nearby starburst galaxy M82
D'avanzo, Paolo; Mereghetti, Sandro Team: et al. p. 450

E1.6-0020-24 18:15 - 18:30
Large-scale Evolution of Seconds-long Relativistic Jets from Black Hole-Neutron Star Mergers
Issa, Danat

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E1.9 Spectral/Timing Properties of AGN: Theory and Observations

Main Scientific Organizer: Papadakis, Iossif
Deputy Organizer: Dewangan, Gulab

High resolution X-ray spectroscopy

Chair: Dewangan, Gulab
Room: CON-107

E1.9-0001-24 09:00 - 09:30 (solicited)
High resolution X-ray spectroscopy: the legacy of Chandra and XMM-Newton on AGN winds
Costantini, Elisa

E1.9-0002-24 09:30 - 10:00 (solicited)
High-resolution X-ray spectroscopy in the XRISM era
Mizumoto, Misaki

E1.9-0003-24 10:00 - 10:15
Ionized X-ray winds in the radio galaxy Mrk 6
Kayanoki, Taishu; Mao, Junjie; Fukazawa, Yasushi

E1.9-0004-24 10:15 - 10:30
The connection between the ultra-fast outflow and the accretion flow around supermassive black holes
Xu, Yerong; Pinto, Ciro; Kara, Erin

Coffee Break

The X-ray corona in AGN

Chair: Ricci, Claudio
Room: CON-107

E1.9-0005-24 11:00 - 11:30 (solicited)
X-ray corona properties and modelling
Zhang, Wenda

E1.9-0006-24 11:30 - 12:00 (solicited)
The nature of soft excess in AGN (Solicited Talk)
Waddell, Sophia

E1.9-0007-24 12:00 - 12:15
UV/X-ray probes of accretion disk/corona in radio-quiet AGN with AstroSat
Dewangan, Gulab

E1.9-0008-24 12:15 - 12:30
The millimeter variability of the Seyfert IC4329A
Barnier, Samuel; Inoue, Yoshiyuki; Michiyama, Tomonari; Doi, Akihiro

Lunch Break

X-ray reflection and reverberation

Chair: Paolillo, Maurizio
Room: CON-107

E1.9-0009-24 15:00 - 15:30 (solicited)
X-ray reflection modeling of AGN
Garcia, Javier

E1.9-0010-24 15:30 - 15:45
X-ray Reflection from Super-Eddington Accretion Flows
Zhang, Zijian; Dai, Jane; Reynolds, Christopher; Garcia, Javier; Kara, Erin

E1.9-0011-24 15:45 - 16:00
Variable X-ray reverberation lags in Ark 564: changing inner accretion flow over time
Yu, Zhefu; Wilkins, Dan; Allen, Steven

E1.9-0012-24 16:00 - 16:15
Constraining Black Hole Growth History With Population Spin Measurements
Piotrowska, Joanna; Garcia, Javier; Walton, Dominic; Beckmann, Ricarda

E1.9-0013-24 16:15 - 16:30
Measuring the Hubble constant with X-ray reverberation mapping of Active Galactic Nuclei
Mitchell, Jake; Ingram, Adam

Coffee Break

X-ray-UV/optical Correlation

Chair: la Franca, Fabio
Room: CON-107

E1.9-0014-24 17:00 - 17:30 (solicited)
X-ray disk thermal reverberation
Panagiotou, Christos

E1.9-0015-24 17:30 - 17:45
Spectral-timing properties of AGN disks and coronae with propagating fluctuations
Uttley, Phil

E1.9-0016-24 17:45 - 18:00
A global black hole optical / X-ray correlation for reprocessing
Cho, Changhyun; Russell, David; Sharma, Aaryan; Saikia, Payaswini; Baglio, Maria Cristina; Alabarta, Kevin

E1.9-0017-24 18:00 - 18:15
Probing the Accretion Disc/Corona Connection in NGC 6814 with the KYNSED Model
Kumari, Kavita; Papadakis, Iossif; Dewangan, Gulab

E1.9-0018-24 18:15 - 18:30
Broadband X-ray/UV/optical time-resolved spectroscopy of NGC 5548: The origin of the UV/optical variability in AGN
Papadakis, Iossif

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E1.12 Gamma-ray Bursts in the next Decade

Main Scientific Organizer: D'avanzo, Paolo
Deputy Organizer: Bissaldi, Elisabetta

GRB classes and progenitors

Room: CON-202

E1.12-0001-24 09:00 - 09:20 (solicited)
Unveiling cosmic surprises: kilonovae and synchrotron-driven emission from long GRBs
Ravasio, Maria Edvige

E1.12-0002-24 09:20 - 09:40 (solicited)
Short Gamma-Ray Bursts from Collapsars:
Zhang, Binbin

E1.12-0003-24 09:40 - 09:55
Exploring Short Gamma-Ray Bursts: afterglow insights from the S-BAT4 extended sample
Brivio, Riccardo

E1.12-0004-24 09:55 - 10:10
Host galaxies and local properties of a complete sample of Short Gamma-Ray Bursts
Ferro, Matteo

E1.12-0005-24 (WITHDRAWN) 10:10 - 10:25
Short GRBs and the nature of their Neutron stars
Moradi, Rahim

Coffee Break

GRB emission from VHE to radio
Room: CON-202

E1.12-0006-24 11:00 - 11:20 (solicited)
GRB prompt emission mechanism in light of high-latitude emission (HLE) signature
Uhm, Z. Lucas

E1.12-0007-24 11:20 - 11:40 (solicited)
An Explanation of GRB Fermi-LAT Flares and High-Energy Photons in Stratified Afterglows
Fraija, Nissim

E1.12-0008-24 11:40 - 11:55
Inverse Compton emission from a reverse shock with turbulent magnetic fields in GRB 180720B
Arimoto, Makoto; Asano, Katsuaki; Kawabata, Koji; Toma, Kenji; Gill, Ramandeep; Granot, Jonathan

E1.12-0009-24 11:55 - 12:10
Off-axis MeV/TeV photons from structured gamma-ray burst jets
Bosnjak, Zeljka; Zhang, Bing Theodore; Murase, Kohta; Ioka, Kunihito

E1.12-0010-24 12:10 - 12:25
Catching bright GRBs with TeV gamma-ray observatories
Huang, Yunlei; Razzaque, Soebur; Yang, Lili

Lunch Break

GRB central engine
Room: CON-202

E1.12-0011-24 15:00 - 15:20 (solicited)
Structured Jets: Illuminating the Enigma of Gamma-Ray Bursts
Beniamini, Paz

E1.12-0012-24 15:20 - 15:40 (solicited)
Clues for the GRB central engine in GRB afterglow light curves
Zhang, Bing

E1.12-0013-24 15:40 - 15:55
Comparative study of numerical models of long GRBs central engines
Bugli, Matteo; Guilet, Jerome; Kotake, Kei; Moesta, Philipp; Mueller, Bernhard; Obergaulinger, Martin; O'connor, Evan; Takiwaki, Tomoya; Varma, Vishnu

E1.12-0014-24 15:55 - 16:10
A Comptonized Fireball Bubble Fits the Second Extragalactic Magnetar Giant Flare GRB 231115A
Yin, Yi-Han; Zhang, Binbin; Zhang, Zhao; Yang, Jun; Chen, Run-Chao; Rehman, Umer; Bahal, Varun

E1.12-0015-24 16:10 - 16:25
Modeling of Long-Lasting GRB Afterglows
Guessoum, Nidhal; Moin, Aquib; Abdi, Ilmah; Almajedi, Ali

Coffee Break

GRBs as MULTI-MESSENGER sources / The BOAT
Room: CON-202

E1.12-0016-24 17:00 - 17:15
Magnetization Factors of GRB Jets Revealed by Systematic Analysis of Fermi Sample
Li, An

E1.12-0017-24 (WITHDRAWN) 17:15 - 17:30
Demystifying the Prompt Emission of GRBs
Parsotan, Tyler

E1.12-0018-24 17:30 - 17:50 (solicited)
The short GRB - kilonova connection
Jin, Zhiping

E1.12-0019-24 17:50 - 18:10 (solicited)
Off-Axis Gamma-Ray Bursts and Electromagnetic Counterparts
Ioka, Kunihito

E1.12-0020-24 18:10 - 18:25
GRB 221009A: An inter-galactic magnetic field strength of 4E-17G and a detectable ultra-high energy cosmic ray outburst
Fan, Yi-Zhong

Sun, Jul 14, 2024

E1.14 Multi-wavelength fast variability across mass scales: from neutron stars to supermassive black holes

Main Scientific Organizer: Vincentelli, Federico
Deputy Organizer: Russell, David

Chair: Russell, David
Room: CON-109

E1.14-0001-24 11:00 - 11:20
Rapid optical and infrared observations of black hole X-ray binaries in a multiwavelength context
Hynes, Robert

E1.14-0002-24 11:20 - 11:35
First comprehensive optical study of IGR J17091-3624 showing minute-timescale oscillations
Saikia, Payaswini; Russell, David; Bramich, Dan; Alabarta, Kevin; Rout, Sandeep

E1.14-0003-24 11:35 - 11:50
Optical Timing Observations of the Black Hole Transient MAXI J1820+070: the 2018 FOC Campaign
Yu, Wenfei; Mao, Dongming; Yan, Zhen; Lin, Jie

E1.14-0004-24 11:50 - 12:05
Studying the early stages of X-ray binary outbursts with XB-NEWS
Alabarta, Kevin; Bramich, Dan; Russell, David; Saikia, Payaswini; Rout, Sandeep; Baglio, Maria Cristina; Lewis, Fraser

E1.14-0005-24 12:05 - 12:20
Puzzling polarization of black hole X-ray binary A0620-00 sheds light on its accretion geometry in passive quiescent state
Kravtsov, Vadim; Veledina, Alexandra; Poutanen, Juri; Berdyugin, Andrei

Coffee Break

Chair: Alabarta, Kevin
Room: CON-109

E1.14-0006-24 15:00 - 15:20
Fast multi-wavelength variability of accreting black holes: the modelling perspective
Veledina, Alexandra

E1.14-0007-24 15:20 - 15:35
Observations of a black hole x-ray binary indicate formation of a magnetically arrested disk
You, Bei

E1.14-0008-24 15:35 - 15:50
Evolution of hard to soft time-lag in Galactic black hole X-ray binaries : Implication on accretion disk geometry
Dutta, Broja G.; Mondal, Soumen

E1.14-0009-24 15:50 - 16:10
Modelling the multi-wavelength emission of accreting neutron stars
Marino, Alessio

E1.14-0010-24 16:10 - 16:30
Highs and lows of transitional pulsars - multi wavelength observations
Baglio, Maria Cristina

Lunch Break

Chair: Vincentelli, Federico
Room: CON-109

E1.14-0011-24 17:00 - 17:15
High amplitude, short timescale multi-wavelength flaring in the neutron star XRB MAXI J1807+132
Rout, Sandeep; Russell, David; Baglio, Maria Cristina; Saikia, Payaswini; Alabarta, Kevin

E1.14-0012-24 17:15 - 17:35
Accretion disk reverberation mapping in AGN
Cackett, Edward

E1.14-0013-24 17:35 - 17:55
Rapid multi-wavelength variability in flaring Sagittarius A*
Wielgus, Maciek; Moscibrodzka, Monika; Yfantis, Aristomenis

E1.14-0014-24 17:55 - 18:10
Detection of a new spectral feature in the prototype Blazar BL Lacertae
Kalita, Nibedita

E1.14-0015-24 18:10 - 18:25
X-ray Reverberation and Spectral Variability study in Seyfert Type 1 Galaxy NGC 4593
Suman, Shree; Pahari, Mayukh

Sun, Jul 14, 2024

E1.17 Constraining the Behaviour of Ultra-dense Matter Using Weakly Magnetised Neutron Stars

Main Scientific Organizer: Yu, Wenfei
Deputy Organizer: Wijnands, Rudy

Accreting weakly/non-magnetic NSs

Chair: Wijnands, Rudy
Room: CON-108

E1.17-0001-24 09:00 - 09:30 (solicited)
Thermonuclear phenomena on the surface of accreting neutron stars
Cavecchi, Yuri

E1.17-0002-24 09:30 - 10:00 (solicited)
Millihertz QPOs in NS LMXBs: Constraining NS Radii from the QPO Waveform
Yu, Wenfei

E1.17-0003-24 10:00 - 10:15
Polarized radiation from an accretion shock in accreting millisecond pulsars using exact Compton scattering formalism
Loktev, Vladislav; Bobrikova, Anna; Salmi, Tuomo; Poutanen, Juri

Coffee Break

Quiescent weakly/non-magnetic and magnetic NSs
Chair: Younes, George
Room: CON-108

E1.17-0004-24 11:00 - 11:30 (solicited)
Observational review of the cooling of accretion-heated neutron stars
Wijnands, Rudy; Degenaar, Nathalie

E1.17-0005-24 11:30 - 11:45
Evidence of gapless neutron superfluidity from the late time cooling of transiently accreting neutron stars
Chamel, Nicolas; Allard, Valentin

E1.17-0006-24 (WITHDRAWN) 11:45 - 12:15 (solicited)
Review of the cooling of accretion-heated magnetized neutron stars
Wijnands, Rudy; Rouco Escorial, Alicia

Lunch Break

Stongly magnetized NSs/Magnetars
Chair: Chamel, Nicolas
Room: CON-108

E1.17-0007-24 15:00 - 15:30 (solicited)
Observational review of magnetar outbursts
Younes, George

E1.17-0008-24 15:30 - 16:00 (solicited)
Review of the modelling of magnetar outbursts
de Grandis, Davide

E1.17-0009-24 16:00 - 16:15
Isolated neutron stars from X-ray survey data
Mancini Pires, Adriana; Kurpas, Jan; Motch, Christian; Schwope, Axel Team: Isolated neutron stars from X-ray survey data p. 452

Coffee Break

Shallow heating in NSs and isolated NSs
Chair: de Grandis, Davide
Room: CON-108

E1.17-0010-24 17:00 - 17:30 (solicited)
Shallow heating in magnetar crusts
Chamel, Nicolas; Fantina, Anthea Francesca; Zdunik, Julian L.; Haensel, Pawel

E1.17-0011-24 17:30 - 18:00 (solicited)
Modeling radiation of rotating neutron star with Monk-NS
Zhang, Wenda

E1.17-0012-24 18:00 - 18:15
Exploring the Interplay between Gamma-Ray Bursts and Gravitational Waves
Al Dallal, Shawqi

E1.17-0013-24 (WITHDRAWN) 18:15 - 18:30 (solicited)
Accreting Millisecond X-ray Pulsars: observational properties
Sanna, Andrea

Sun, Jul 14, 2024

E2.1 Energetics and dynamics in the quiet solar atmosphere and beyond

Main Scientific Organizer: Huang, Zhenghua
Deputy Organizer: Madjarska-Theissen, Maria

Energetics and dynamics in the quiet solar atmosphere and beyond: Q1

Chair: Huang, Zhenghua
Room: CON-106

E2.1-0001-24 09:00 - 09:30 (solicited)
Inferring Solar Photospheric Magnetic Fields with DKIST Observations
Sun, Xudong

E2.1-0002-24 09:30 - 09:50 (solicited)
Observations of the solar polar magnetic field
Yang, Shuhong

E2.1-0003-24 09:50 - 10:10 (solicited)
Solar coronal magnetic field measurements using spectral lines available in Hinode/EIS observations: strong and weak field techniques and temperature diagnostics
Chen, Yajie; Bai, Xianyong; Tian, Hui; Li, Wenxian; Chen, Feng; Yang, Zihao

E2.1-0004-24 10:10 - 10:30
Oral poster presentations - 1
Huang, Zhenghua

Coffee Break

Energetics and dynamics in the quiet solar atmosphere and beyond: Q2
Chair: Tian, Hui
Room: CON-106

E2.1-0005-24 11:00 - 11:30 (solicited)
Swirls in the solar atmosphere
Liu, Jiajia; Erdelyi, Robert; Nelson, Chris; Carlsson, Mats; Jess, David; Mathioudakis, Mihalis; Wang, Yuming

E2.1-0006-24 11:30 - 11:45
Validating Local Correlation Tracking for inferring the quiet photospheric velocity field using MURaM and DKIST
Turkay, Shivdev Singh; Scullion, Eamon; Botha, Gert J. J.; Rees-Crockford, Thomas

E2.1-0007-24 11:45 - 12:00

The Magnetic Origin of Solar Campfires: Solar Orbiter and SDO Observations
Panesar, Navdeep Kaur; Hansteen, Viggo; Tiwari, Sanjiv Kumar; Berghmans, David; Cheung, Mark; Müller, Daniel; Auchere, Frederic; Zhukov, Andrei

E2.1-0008-24 12:00 - 12:15

Magnetic helicity evolution during active region emergence and subsequent flare productivity
Sun, Zheng; Li, Ting; Wang, Quan; Yang, Shangbin; Zhang, Mei; Chen, Yajie

E2.1-0009-24 12:15 - 12:30

Statistical properties of H-alpha jets in the polar coronal hole and their implications in coronal activities
Qi, Youqian; Huang, Zhenghua; Xia, Lidong; Fu, Hui; Guo, Mingzhe; Hou, Zhenyong

Lunch Break

Energetics and dynamics in the quiet solar atmosphere and beyond - Q3

Chair: Nóbrega Siverio, Daniel
Room: CON-106

E2.1-0010-24 15:00 - 15:30 (solicited)

Understanding energetics and dynamics of the quiet lower solar atmosphere with MHD modeling and observations
Danilovic, Sanja

E2.1-0011-24 15:30 - 16:00 (solicited)

The solar transition region: current understanding and future perspectives
Tian, Hui

E2.1-0012-24 16:00 - 16:15

The effect of horizontal density inhomogeneity on spicules driven by vertical velocity pulses
Zhang, Chao; Huang, Zhenghua; Xia, Lidong; Wei, Hengyuan

E2.1-0013-24 16:15 - 16:30

Numerical studies of spicules and the triggered heating process in the corona hole region
Ni, Lei

Coffee Break

Energetics and dynamics in the quiet solar atmosphere and beyond - Q4

Chair: Danilovic, Sanja
Room: CON-106

E2.1-0014-24 17:00 - 17:30 (solicited)

Coronal Jets and Their Connection to the Chromosphere
Shen, Yuandeng

E2.1-0015-24 17:30 - 18:00 (solicited)

Deciphering the solar coronal heating: Energizing small-scale loops through surface convection
Nóbrega Siverio, Daniel; Moreno-Insertis, Fernando; Galsgaard, Klaus; Krikova, Kilian; Rouppe van der Voort, Luc; Joshi, Reetika; Madjarska-Theissen, Maria; Martinez Sykora, Juan

E2.1-0016-24 18:00 - 18:15

Loops in the solar transition region
Huang, Zhenghua; Xia, Lidong; Li, Bo; Madjarska-Theissen, Maria; Fu, Hui

E2.1-0017-24 18:15 - 18:30

Electron densities of Transition Region Loops derived from IRIS O IV spectral data
Liang, Shiyu; Huang, Zhenghua

Sun, Jul 14, 2024

E2.4 Application of Machine Learning Techniques in Solar and Heliospheric Physics

Main Scientific Organizer: Chifu, Iulia
Deputy Organizer: Gafeira, Ricardo

Chair: Chifu, Iulia
Room: CON-201

E2.4-0001-24 09:00 - 09:30 (solicited)

AI Techniques for Processing Solar and Space Missions Data
Qahwaji, Rami

E2.4-0002-24 09:30 - 09:50

Spatio-temporal deconvolution method for enhanced analysis of solar data
Eklund, Henrik

E2.4-0003-24 09:50 - 10:10

Prediction of Next Solar Rotation Synoptic Maps Using an AI-based Solar Surface Flux Transport Model
Jeong, Hyun-Jin; Jeon, Mingyu; Kim, Daeil; Kim, Youngjae; Baek, Ji-Hye; Moon, Yong-jae; Choi, Seonghwan

E2.4-0004-24 10:10 - 10:30

Preliminary prediction of solar active region evolution using novel deep learning models
Lee, Harim; Park, Eunsu; Son, Jihyeon; Il-Hyun, Cho; Moon, Yong-jae; Khojiakbar, Karimov; Lim, Yerim; Park, Jinhye; Lee, Kyoung-Sun

Coffee Break

Chair: Gafeira, Ricardo
Room: CON-201

E2.4-0005-24 11:00 - 11:30 (solicited)

Advances in machine learning applications on photospheric and chromospheric studies
Diaz Baso, Carlos Jose

E2.4-0006-24 11:30 - 11:50 (solicited)

Enhancing the interpretation of spectropolarimetric observations using machine learning
Milic, Ivan; Gafeira, Ricardo; Diaz Baso, Carlos Jose

E2.4-0007-24 11:50 - 12:10

Machine learning and deep learning tools for recovering thermodynamics in the low solar atmosphere observed by IRIS.
Sainz Dalda, A.

E2.4-0008-24 12:10 - 12:30

SuperSynthIA: Computer Vision for Enhanced Solar Full-Disk High-Cadence Vector Magnetograms
Wang, Ruoyu; Leka, K D; Fouhey, David; Higgins, Richard; Antiochos, Spiro; Barnes, Graham; Hoeksema, J. Todd; Liu, Yang; Schuck, Pete; Gombosi, Tamas

Lunch Break

Chair: Sawant, Sailee
Room: CON-201

E2.4-0009-24 15:00 - 15:30 (solicited)

Development of Deep Learning Models for Solar EUV Image Translation and Solar Magnetogram Denoising, and Their Applications
Park, Eunsu; Lee, Harim; Moon, Yong-jae; Choi, Seonghwan

E2.4-0010-24 15:30 - 15:50

Developing an Automated Detection, Tracking and Analysis Method for Solar Filaments Observed by CHASE via Machine Learning
Zheng, Zhi; Hao, Qi; Qiu, Ye; Hong, Jie; Li, Chuan; Ding, Mingde

E2.4-0011-24 15:50 - 16:10

A Multi-branch Deep Neural Network for Super-resolution of Solar Magnetograms
Dou, Fengping

E2.4-0012-24 16:10 - 16:30

Statistical analyses of solar prominences, filaments and active region features detected via machine learning
Hao, Qi; Zhang, Tianmai; Zheng, Zhi; Chen, P. F.

Coffee Break

Chair: S. Barros, Filipa
Room: CON-201

E2.4-0013-24 17:00 - 17:30 (solicited)

From Sun to Earth: machine learning for space weather forecasting
Guastavino, Sabrina; Piana, Michele; Benvenuto, Federico; Massone, Anna Maria

E2.4-0014-24 17:30 - 17:50 (solicited)

Advancing Solar Flare Forecasts by Explainable AI and Deep Reinforcement Learning
Yi, Kangwoo; Moon, Yong-jae; Park, Eunsu; Lee, Harim; Lim, Daye; Jeong, Hyun-Jin

E2.4-0015-24 17:50 - 18:10

Driving the SEPCaster Model with an Automated Solar Active Region Identification and Characterization Module
Sawant, Sailee; Jin, Meng; Li, Gang

E2.4-0016-24 18:10 - 18:30

Advancing Solar Limb Flare Prediction Using EUV Intensity
Lee, Jaewon; Moon, Yong-jae; Yi, Kangwoo; Jeong, Hyun-Jin; Lee, Harim

Sun, Jul 14, 2024

E2.5 Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind

Main Scientific Organizer: van Doorsselaere, Tom
Deputy Organizer: Li, Bo

Chair: van Doorsselaere, Tom
Room: CON-203

E2.5-0001-24 09:00 - 09:30 (solicited)

The dynamics of waves in the lower solar atmosphere
Bate, William; Jess, David

E2.5-0002-24 09:30 - 09:45

Magnetic field fluctuations as evidence of striking opacity fluctuations in He I 1083.0 nm
Felipe, Tobias; González Manrique, Sergio J.; C. R., Sangeetha; Asensio Ramos, Andres

E2.5-0003-24 09:45 - 10:00

Propagation and Damping of Slow Magnetoacoustic Waves from Photosphere to Corona Along the Fan-loops Rooted in Sunspot Umbra
Gupta, Girjesh R; Rawat, Ananya

E2.5-0004-24 10:00 - 10:15

Reproduction of the two-dimensional patterns of chromospheric umbral oscillations with the subphotospheric fast body modes
Kang, Juhyung; Chae, Jongchul; Cho, Kyuhyoun; Kang, Soosang; Lim, Eun-Kyung

E2.5-0005-24 10:15 - 10:30

Discrete Wave Sources within the Lower Solar Atmosphere
Rast, Mark; Bahauddin, Shah

Coffee Break

Chair: Lim, Daye
Room: CON-203

E2.5-0006-24 11:00 - 11:30 (solicited)

Modeling of stellar coronal loops and generalized scaling laws
Washinoue, Haruka

E2.5-0007-24 11:30 - 11:45

Apparent damping of slow magnetoacoustic waves detected above footpoints of coronal loops
Nakariakov, Valery; Meadowcroft, Rebecca

E2.5-0008-24 11:45 - 12:00

The driving of coronal Alfvénic waves by p-modes
Morton, Richard; Miriyala, Hemanthi; Antolin, Patrick; Khomenko, Elena; Botha, Gert J. J.

E2.5-0009-24 12:00 - 12:15

Rising of two crossing prominences and the resulting oscillations
Wei, Hengyuan; Huang, Zhenghua; Zhang, Qingmin; Li, Ying; Fu, Hui; Xiong, Ming; Xia, Lidong; Feng, Li; Li, Hui; Gan, Weiqun

E2.5-0010-24 12:15 - 12:30
Direct Imaging of MHD Wave Mode Conversion Near a 3D Null Point in the Solar Corona
Kumar, Pankaj; Karpen, Judy; Nakariakov, Valery; Cho, Kyung-suk

Lunch Break

Chair: Washinoue, Haruka
Room: CON-203

E2.5-0011-24 15:00 - 15:30 (solicited)
Observations of MHD waves in the solar atmosphere
Pant, Vaibhav

E2.5-0012-24 15:30 - 15:45
Small-scale coronal EUV brightening produced by a magnetic tornado
Kuniyoshi, Hidetaka; Yokoyama, Takaaki

E2.5-0013-24 15:45 - 16:00
MHD modeling of standing and reflected slow-mode waves in flaring coronal loops: A parametric study
Wang, Tongjiang; Ofman, Leon; Bradshaw, Stephen

E2.5-0014-24 16:00 - 16:15
Exploring High-Frequency Transverse Waves in Chromospheric Fibrils: Insights from the MiHI Instrument
Petrova, Elena; van Doorsselaere, Tom; Berghmans, David

E2.5-0015-24 16:15 - 16:30
Horizontally Polarized Kink Oscillations Supported by Solar Coronal Loops in an Asymmetric Environment
Shi, Mijie; Li, Bo

Coffee Break

Chair: Felipe, Tobias
Room: CON-203

E2.5-0016-24 17:00 - 17:30 (solicited)
Waves in the solar corona and their heating
Lim, Daye

E2.5-0017-24 17:30 - 17:45
Oblique Quasi-kink Modes in Solar Coronal Slabs Embedded in an Asymmetric Magnetic Environment
Chen, Shao-Xia; Li, Bo; Guo, Mingzhe; Shi, Mijie

E2.5-0018-24 17:45 - 18:00
Generating MHD waves by magnetic reconnection in a coronal arcade
Luna, Manuel; Oliver, Ramon; Soler, Roberto; Terradas, Jaume

E2.5-0019-24 18:00 - 18:15
MHD waves in 3-dimensional slab modelling - Solar applications
Kim, Wansoo; Zsamberger, Noemi Kinga; von Fay-Siebenburgen, Robert

E2.5-0020-24 18:15 - 18:30
Kink polarizations in curved coronal loops
Guo, Mingzhe; van Doorsselaere, Tom; Li, Bo; Goossens, Marcel

Sun, Jul 14, 2024

F1.2 Space Microgravity Environment Utilization

Main Scientific Organizer: Choi, Gi Hyuk
Deputy Organizer: Lee, Joo-Hee

Room: EC1-211

F1.2-0001-24 15:00 - 15:15
Enabling Life Sciences with Multi-scale Space Stations in Low Earth Orbit
Yoon, Tae-Sung

F1.2-0002-24 15:15 - 15:30
The Use of AI to Monitor Radiation in Space Farming
Gu, Hariette; Simmons, Kevin

F1.2-0003-24 15:30 - 15:45
Genetic basis for alter virulence of Enterobacter cloacae in microgravity
Jang, Hyochan; Higashitani, Atsushi; Lee, Jin I.; Mitchell, Robert

F1.2-0004-24 15:45 - 16:00
Modeling of mode switching in cool flame occurrences around a fuel droplet pair
Iemura, Kazuki; Saito, Masanori; Tanabe, Mitsuaki

F1.2-0005-24 16:00 - 16:15
Ground based studies with electrostatic levitation in Korea Research Institute of Standards and Science
Lee, Geun Woo

F1.2-0006-24 16:15 - 16:30
Influence of ambient temperature and inter-droplet spacing on cool flame behavior of fuel droplet pair under microgravity conditions
Saito, Rintaro; Imanaka, Haru; Ebashi, Kousei; Saito, Masanori; Tanabe, Mitsuaki

Coffee Break

Room: EC1-211

F1.2-0007-24 17:00 - 17:15
TOWARDS THE DEVELOPMENT OF 6DOF HARDWARE-IN-THE-LOOP GROUND TESTBED FOR SPACE ROBOTIC MANIPULATORS
Al Ali, Ahmad; H. Zhu, Zheng

F1.2-0008-24 17:15 - 17:30
Alternative Antibiotics for Microgravity - Taking Advantage of Altered Bacterial Activities and Physiologies
Mitchell, Robert; Jang, Hyochan

F1.2-0009-24 17:30 - 17:45
Rapid detection technology of space microorganism using LAMP coupled fluorescence lateral flow chromatography test strips
Han, Pei

F1.2-0010-24 17:45 - 18:00
Infrastructure for the development and utilization of space solar energy—— Solar Power Satellite
Cheng, Alice; Chen, Ying; Zhou, Lu; Huang, Xiaoqi; Hou, Xinbin

F1.2-0011-24 18:00 - 18:15

Research on requirements analysis for space experiments
Wang, Lyu; Zhao, Liping

F1.2-0012-24 18:15 - 18:30

GRAVITY CONTROL TO REVOLUTIONIZE GENE ELECTROPORATION
Shim, Jung-Uk Team: Spaceliintech p. 458

Sun, Jul 14, 2024

F2.1 Biological Effects of Space Radiation and Co-stressors

Main Scientific Organizer: Hellweg, Christine
Deputy Organizer: Schroeder, Insa Sigrid

DNA Damage Response and Its Outcome: Inter-Species and Inter-Individual Differences and Influence of Other Factors (I)

Chair: Hellweg, Christine
Room: EC1-212

F2.1-0001-24 09:00 - 09:30 (solicited)

Lessons from the African Savanna for Space Exploration: Radiation Response of Elephant Cells
Vandevoorde, Charlot Team: TUSCC p. 460

F2.1-0002-24 09:30 - 09:50

Influence of Head-Down Tilt Bedrest on DNA Repair Capacity in Peripheral Blood Mononuclear Cells
Konda, Bikash; Hellweg, Christine; Ishizuka, Minon; Nisar, Hasan; Kronenberg, Jessica; Schmitz, Claudia; Diegeler, Sebastian; Mulder, Edwin; Bohmeier, Maria; Schrage-Knoll, Irmtrud; Huth, Elfriede; Jordan, Jens

F2.1-0003-24 (WITHDRAWN) 09:50 - 10:10

Enhanced ATR-activation and structural chromosomal-abnormalities formation after cellular exposure to cosmic radiation
Iliakis, George; Mladenov, Emil; Mladenova, Veronika; Sun, Yanjie; Friedrich, Thomas; Scholz, Michael; Stuschke, Martin

F2.1-0004-24 10:10 - 10:30

From Earth to space: analyzing the effects of heavy ions on Salvia hispanica L. microgreens for future space agriculture
de Francesco, Sara; Amitrano, Chiara; Vitale, Ermenegilda; Tinganelli, Walter; Durante, Marco; De Pascale, Stefania; Arena, Carmen; De Micco, Veronica

Coffee Break

DNA Damage Response and Its Outcome: Inter-Species and Inter-Individual Differences and Influence of Other Factors (II)

Chair: Vandevoorde, Charlot
Room: EC1-212

F2.1-0005-24 11:00 - 11:30 (solicited)

Sex and Inflammation as Influencing Factors in the Radiation Response: Learning from Low-Dose Radiotherapy
Deloch, Lisa; Winterling, Lena; Irianto, Teresa; Flohr, Ann-Sophie; Ruspeckhofer, Laura; Unterleiter, Tom; Völlings, Antonia; Piltz, Margaux; Rückert, Michael; Weissmann, Thomas; Fietkau, Rainer; Gaipl, Udo S.

F2.1-0006-24 11:30 - 11:50

Spatial multi-omics of human skin reveals KRAS and inflammatory responses to spaceflight
Park, Jiwoon; Overbey, Eliah; Kim, Jangkeun; Tierney, Braden; Damle, Namita; Najjar, Deena; Ryon, Krista; Granstein, Richard; Meydan, Cem; Beheshti, Afshin; Mateus, Jaime; Mason, Chris

F2.1-0007-24 11:50 - 12:10

Characterization of cellular senescence induced by space radiation: implications for space travel
Mukherjee, Bipasha; Pitcher, Louise; Robbins, Paul; Burma, Sandeep

F2.1-0008-24 12:10 - 12:30

INCREASED CHROMOSOME ABERRATIONS IN HUMAN CELLS EXPOSED TO SIMULATED MICROGRAVITY AND RADIATION SIMULTANEOUSLY
Saganti, Premkumar; Hada, Megumi; Ikeda, Hiroko; Plante, Ianik; Mao, Jian-Hua; Georgakilas, Alexandros G.; Takahashi, Akihisa; Michalopoulos, Ioannis

Sun, Jul 14, 2024

F2.2 Enabling Human Space Exploration through Research on Risks and Countermeasures to Space Radiation Exposure

Main Scientific Organizer: Cucinotta, Francis
Deputy Organizer: Baiocco, Giorgio; Narici, Livio

Room: EC1-212

F2.2-0001-24 15:00 - 15:30 (solicited)

Neutrons in space – a charged issue
Baiocco, Giorgio; Mentana, Alice; Quaresima, Virgilio; Kundrát, Pavel; Guardamagna, Isabella; Lonati, Leonardo; Iaria, Ombretta; Previtali, Andrea; Santi Amantini, Giorgia; Lunati, Luca; Boretti, Virginia; Narici, Livio; Di Fino, Luca; Bocchini, Luca; Cipriani, Claudio

F2.2-0002-24 15:30 - 15:50

A comparison of the Lunar and Martian radiation environment
Guo, Jingnan

F2.2-0003-24 15:50 - 16:10

Global Model of Pion Production for 3DHZETRNv2.2
Wilson, John; Werneth, Charles; Tweed, John; Blattnig, Steve; Slaba, Tony

F2.2-0004-24 16:10 - 16:30

Multi-layer shielding concepts for radiation mitigation on Mars surface under various mission scenarios, using ARAMIS environment model
Charpentier, Gabin; Ecoffet, Robert; Dossat, Cedric; Benacquista, Rémi; Ruffenach, Marine; Boyer, Laure; Paillet, Alexis; Mekki, Julien; Valet, Philippe; Gourinat, Yves

Coffee Break

Room: EC1-212

F2.2-0005-24 17:00 - 17:20
GCR and SPE-induced of Organ Doses of The Astronauts for Future China's Lunar Exploration Flight Based on Geant4 Monte Carlo Simulation
Shen, Jiangyan; Yan, Congchong; Zhu, Kun; Zhang, Desong

F2.2-0006-24 17:20 - 17:40
IMAGING HEAVY ION RADIATION PARTICLE TRAJECTORY AT MICRON RESOLUTION AND MODELING
Saganti, Premkumar; Cucinotta, Francis; Holland, Samuel; Hada, Megumi; Wang, Huichen; Kolluri, Sonia; Rahman, Mahmudur; Saganti, Seth; Erickson, Gary

F2.2-0007-24 17:40 - 18:00
Insights from the AMS SPRB Collaboration: Recent Advances in Space Radiobiology
Bartoloni, Alessandro Team: AMS SPRB p. 447

F2.2-0008-24 18:00 - 18:20
Genomic aberrations of murine precursor B-cell lymphomas developed after radiation exposure are associated with radiation quality
Amano, Kenta; Tachibana, Hirotaka; Tsuruoka, Chizuru; Daino, Kazuhiro; Morioka, Takamitsu; Shang, Yi; Ishikawa, Atsuko; Matsuura, Akira; Kakinuma, Shizuko

Sun, Jul 14, 2024

F3.1 Chemical Complexity of Molecular Universe

Main Scientific Organizer: das, Ankan
Deputy Organizer: Puzzarini, Cristina

Observations

Chair: Fontani, Francesco
Room: EC1-213

F3.1-0001-24 09:00 - 09:20 (solicited)
Mysterious interstellar embedded icy objects: ALMA follow-up observations
Shimonishi, Takashi; Onaka, Takashi; Sakon, Itsuki

F3.1-0002-24 09:20 - 09:50 (solicited)
Exploring CO protostellar outflows in low-metallicity environments with the MAGOS survey
Tanaka, Kei; Shimonishi, Takashi; Zhang, Yichen

F3.1-0003-24 09:50 - 10:10 (solicited)
Chemical Signatures as a Multiphase Component tracer in the Galactic Center
Colzi, Laura; Martin-Pintado, Jesus; Rivilla, Víctor M.; Jimenez-Serra, Izaskun M.; Zeng, Shaoshan; Sanz-Novo, Miguel

F3.1-0004-24 10:10 - 10:30
Unveiling the Secrets of an Isolated Massive Protostar
Gorai, Prasanta; Law, Chi-Yan; Tan, Jonathan; Zhang, Yichen; Fedriani, Ruben; Tanaka, Kei; Bonfand, Melisse; Cosentino, Giuliana; Mardones, Diego; Beltran, Maria Teresa; Garay, Guido

Coffee Break

Observations

Chair: Rivilla, Víctor M.
Room: EC1-213

F3.1-0005-24 11:00 - 11:30
The Interplay between Complex Organic Molecules and Asymmetric Accretion Traced by Sulfur-bearing Species in Perseus Embedded Protostars
Yang, Yao-Lun; Sakai, Nami; Zhang, Ziwei; Artur de la Villarmois, Elizabeth Team: PEACHES p. 456

F3.1-0006-24 11:30 - 11:50 (solicited)
Chemical complexity at the starless-core and protostellar stages in active star-forming regions
Taniguchi, Kotomi

F3.1-0007-24 11:50 - 12:10 (solicited)
Complex carbon isotope fractionation in a protoplanetary disk
Yoshida, Tomohiro Team: Carbon Isotope Chemistry in Protoplanetary Disks p. 449

F3.1-0008-24 12:10 - 12:30 (solicited)
Unveiling Chemical Compositions in Protostellar Envelopes and Disks through Burst Accretion Events
Lee, Jeong-Eun

Lunch Break

Observations

Chair: Shimonishi, Takashi
Room: EC1-213

F3.1-0009-24 15:00 - 15:30 (solicited)
Chemical complexity in star-forming regions of the outer Galaxy
Fontani, Francesco; Colzi, Laura; Sanchez-Monge, Alvaro; Beltran, Maria Teresa; Caselli, Paola; Viti, Serena; Rivilla, Víctor M.; Elia, Davide; Vermarien, Gijs

F3.1-0010-24 15:30 - 16:00 (solicited)
Chemical complexity in the Solar System
Cordiner, Martin

F3.1-0011-24 16:00 - 16:15
Outflows, Jets and a hot core in the outer Galaxy: ALMA observations toward the Sharpless 2-283 region
Ikeda, Toki; Shimonishi, Takashi; Izumi, Natsuko; Tanaka, Kei

F3.1-0012-24 16:15 - 16:30
Nitrogen-bearing Molecules In The Hot Molecular Core, G10.47+0.03
Mondal, Suman Kumar; Gorai, Prasanta; Sil, Milan; Bhat, Bratati; Ghosh, Rana; Iqbal, Wasim; Wakelam, Valentine; das, Ankan

Coffee Break

Observations

Chair: Yang, Yao-Lun
Room: EC1-213

F3.1-0013-24 17:00 - 17:30 (solicited)
Molecular precursors of the RNA-world in the interstellar medium: the astrochemical mine discovered in the G+0.693-0.027 molecular cloud
Rivilla, Víctor M.

F3.1-0014-24 17:30 - 17:50 (solicited)
Deep search for phosphine in prestellar core L1544
Furuya, Kenji; Shimonishi, Takashi

F3.1-0015-24 17:50 - 18:10
Chemical Complexity of Phosphorous-bearing Species
Sil, Milan; Srivastav, Satyam; Bhat, Bratati; Mondal, Suman Kumar; Gorai, Prasanta; Shimonishi, Takashi; Sivaraman, Bhalamurugan; Pathak, Amit; Nakatani, Naoki; Furuya, Kenji; das, Ankan

F3.1-0016-24 18:10 - 18:30 (solicited)
On the detectability of new carboxylic acids sin space: Interstellar discovery of carbonic acid (HOCOOH) at last
Sanz-Novo, Miguel; Rivilla, Víctor M.; Jimenez-Serra, Izaskun M.; Colzi, Laura; Martin-Pintado, Jesus

Sun, Jul 14, 2024

F4.1 Advances in Life Support Technologies and Test Bed Facilities

Main Scientific Organizer: Verseux, Cyprien
Deputy Organizer: Poulet, Lucie

Agriculture in LSS

Chair: Verseux, Cyprien
Room: EC1-312

F4.1-0001-24 09:00 - 09:15
EDEN Research Group: Overview of Bio-regenerative Life Support System research at the German Aerospace Center
Vrakking, Vincent; Schubert, Daniel; Philpot, Claudia; Dorn, Markus

F4.1-0002-24 09:15 - 09:30
SERENITY: a framework to efficiently design greenhouse modules for space
Poulet, Lucie; Florez-Orrego, Daniel Alexander; Dussap, Claude-Gilles; Maréchal, François

F4.1-0003-24 09:30 - 09:45
Research on the bio-activation of mineral nutrients and perchlorate purification in simulated Martian soil
Liu, Hui; Wang, Wenlin; Liu, Hong

F4.1-0004-24 09:45 - 10:00
Wheat rhizospheric Proteobacterial phytoprobiotics confront Bacteroidota and Firmicutes in improved lunar soil simulant accompanied with fungal withdrawal
Feng, Jiajie; Yao, Zhikai; Liao, Boyang; Liu, Hong

F4.1-0005-24 10:00 - 10:15
Dynamic Simulation Study on Relationship between Internal Pressure Control and Airtightness in SPACE FOODSPHERE
Miyajima, Hiroyuki; Tanaka, Yoshitoki; Tsuda, Hidekazu; Mori, Soichi

F4.1-0006-24 10:15 - 10:30
F4.1 Poster Highlights Session
Verseux, Cyprien; Poulet, Lucie; Audas, Chloe

Coffee Break

Microorganisms in LSS

Chair: Audas, Chloe
Room: EC1-312

F4.1-0007-24 11:00 - 11:15
TUM Algentechnikum: Research on Microalgae-based Life Support Systems - facility and first steps
Detrell, Gisela; Santaeufemia Sánchez, Sergio; Salman, Lina

F4.1-0008-24 11:15 - 11:30
Cyanobacterium production from Martian resources: update on experimental results and resource-efficiency assessments
Verseux, Cyprien; Ramalho, Tiago P.; Bohuon, Emma; Kunst, Nils; Heinicke, Christiane; Pillot, Guillaume; Kerzenmacher, Sven; Avila, Marc

F4.1-0009-24 11:30 - 11:45
Anaerobic digestion of cyanobacterial biomass for the in-situ production of plant fertilizer on Mars
Ramalho, Tiago; Bunchek, Jess; Schubert, Daniel; Kerzenmacher, Sven; Verseux, Cyprien; Pillot, Guillaume

F4.1-0010-24 11:45 - 12:00
Powering iron biomining on Mars with electricity and carbon dioxide as microbial food
Carissimo, Antoine; Dirks, Jan-Henning; Pillot, Guillaume; Kerzenmacher, Sven; Friedrich, Michael W.

F4.1-0011-24 12:00 - 12:20 (solicited)
Photoelectrochemical Devices for Space Applications
Brinkert, Katharina; Akay, Ömer; Romero-Calvo, Álvaro; Ross, Byron; Saravanabavan, Shaumica

Lunch Break

LSS programs

Chair: Lasseur, Christophe
Room: EC1-312

F4.1-0012-24 15:00 - 15:30 (solicited)
The International Grand Science Program of International Lunar Research Station: lunar life sciences
Liu, Hong; Feng, Jiajie; Liu, Hui; Fu, Yuming

F4.1-0013-24 15:30 - 15:50 (solicited)
MELiSSA Project: Strategy for 2024-2030
Audas, Chloe; de Mey, Stefaan; Speidel, Stephan; Suters, Rob

F4.1-0014-24 (WITHDRAWN) 15:50 - 16:10 (solicited)
Biotechnologies for synthetic waste recycling: a tool to close the loop in space and on Earth
Santomartino, Rosa; Loron, Corentin; Gromov, Andrei; Li, Denise; Cockell, Charles; Balsamo, Michele Team: Kayser Italia S.r.l. p. 453

F4.1-0015-24 16:10 - 16:25
MELiSSA Pilot Plant Integration and Operation
Godia, Francesc; Arnau, Carolina; Ciurans, Carles; Vilaplana, Marcel; Peiro, Enrique; Dussap, Claude-Gilles; Poughon, Laurent; Gerbi, Olivier; Vizcarra, Arnau; Pannico, Antonio; De Pascale, Stefania; Lamaze, Brigitte; Audas, Chloe; Lasseur, Christophe

Coffee Break

Other aspects of LSS

Chair: Poulet, Lucie
Room: EC1-312

F4.1-0016-24 17:00 - 17:15

Photo electrocatalytic Martian CO2 reduction: insights into reaction mechanisms and material design
Pol, Roelof; Brinkert, Katharina; Langmack, Peter

F4.1-0017-24 17:15 - 17:30

Model Predictive Control for Highly Regenerative Life Support Systems
Cimini, Gionata; Audas, Chloe; Gatti, Marco; Bernardini, Daniele; Bucchieri, Lorenzo; Bemporad, Alberto

F4.1-0018-24 17:30 - 17:45

Life-Support and Well-Being on the Moon and beyond
Tamponnet, Christian; Tafforin, Carole

F4.1-0019-24 17:45 - 18:00

Dust Handling and Mitigation in Lunar Habitats
Rasera, Joshua; Cruise, Reuben; Yu, Yue; Pukkella, Arjun; Starr, Stanley; Hadler, Kathryn; Cilliers, Jan

F4.1-0020-24 18:00 - 18:30 (solicited)

Can Life Sciences based technologies be on the critical development pathway of human exploration?
Lasseur, Christophe; Audas, Chloe

Sun, Jul 14, 2024

G0.1 Gravitational Effects on Physico-Chemical Processes

Main Scientific Organizer: Porter, Jeff
Deputy Organizer: Yano, Taishi

Thermocapillary effect, particle accumulation structures, phase change

Chair: Porter, Jeff
Room: EC1-317

G0.1-0001-24 09:00 - 09:15

Numerical investigation of particle accumulation structures in high aspect ratio liquid bridges
Kato, Keiichiro; Ueno, Ichiro; Lappa, Marcello; Capobianchi, Paolo

G0.1-0002-24 09:15 - 09:30

Tomographic reconstruction of formation process of particle accumulation structure in a thermocapillary liquid bridge under microgravity
Yano, Taishi; Nakanishi, Yuji; Nishino, Koichi

G0.1-0003-24 09:30 - 09:45

Design, performance and preliminary results of the MarPCM experiment
Martínez, Úrsula; Laverón-Simavilla, Ana; Lapuerta, Victoria; Olfe, Karl; Bello García, Álvaro; Fernandez Fraile, Jose Javier

G0.1-0004-24 09:45 - 10:00

Controlling the dynamics of a liquid-air interface with thermocapillary flows and vibrations
Martínez, Úrsula; Gligor, Dan; Plaza, Jose; Torres, Isabel; Salgado Sánchez, Pablo; Ezquerro Navarro, Jose Miguel; Lapuerta, Victoria

G0.1-0005-24 10:00 - 10:15

Passive Thermal Control of Space Habitats using Phase Change Materials
Porter, Jeff; Borshchak Kachalov, Andriy; Ongil, Claudia; Salgado Sánchez, Pablo; Ezquerro Navarro, Jose Miguel; Martínez, Ursula; Seta, Berin; Laverón-Simavilla, Ana

G0.1-0006-24 10:15 - 10:30

Rheological measurement and microscopic observation facility in Chinese Space Station and preliminary research on colloidal phase transition
Wang, Yuren; Zheng, Zhongyu; Li, Weibin; Zhang, Chen

Coffee Break

Chemical processes, fluids and sloshing

Chair: Yano, Taishi
Room: EC1-317

G0.1-0007-24 11:00 - 11:15

Synthesis of catalyst nanomaterials for photoelectrochemical water-splitting in microgravity
Tossi, Camilla; Brinkert, Katharina

G0.1-0008-24 11:15 - 11:30

Data Preprocessing and Validation for the Project vgBOILING-CSS
Du, Wang-Fang; Zhao, Jian-Fu; Sun, Wei; Li, Meng-Meng; Li, Xiang; Qiao, Zhi-Hong; Ye, Fang; Guo, Hang

G0.1-0009-24 11:30 - 11:45

Investigations of rigid-liquid coupled dynamics of the reusable rocket during the recovery process
Guo, Ziyi; Zhang, Zhengchuan; Wei, Lie; Li, Kai; Zhao, Jian-Fu; Zhao, Xiao; Lin, Hai

G0.1-0010-24 11:45 - 12:00

Sloshing Reduction with Passive Baffles in Microgravity
Porter, Jeff; Peromingo, Carlos; Gligor, Dan; Salgado Sánchez, Pablo; Méndez, Miguel Alfonso; Marques, Pedro Afonso

G0.1-0011-24 12:00 - 12:15

Numerical modeling of gravity effects on solid material flammability
Zhu, Feng; Wang, Shuangfeng

G0.1-0012-24 12:15 - 12:30

Impregnation of viscous fluid into woven fiber bundles confined between parallel plates
Inagawa, Masaki; Miyoshi, Toru; Ito, Tomoki; Kurose, Kizuku; Ueno, Ichiro

Sun, Jul 14, 2024

G0.5 GravityNEXT

Main Scientific Organizer: Romero-Calvo, Álvaro
Deputy Organizer: Brinkert, Katharina; Ruttley, Tara

Room: EC1-317

G0.5-0001-24 15:00 - 15:15 (solicited)

The commercial future of research in space
Gupta, Anjali

G0.5-0002-24 15:15 - 15:35 (solicited)
Architecture for Scalable Research and Manufacturing in Space
Elliott, Ryan; Patel, Ishaan; Coelho, Antonio

G0.5-0003-24 15:35 - 15:50
The Magnetically-Enhanced Electrolysis (MEE) Experiment: Design, Results, and Lessons Learned
Romero-Calvo, Álvaro; Nogales, Connor; Billings, Keith; West, William C.; Schaub, Hanspeter

G0.5-0004-24 15:50 - 16:10
Starlab: Building a global platform to accelerate space research in microgravity
Okamura, Kohei

G0.5-0005-24 16:10 - 16:25
Application of magnetic fluids for hydrogen/oxygen production by magnetic ejection effect
Iwamoto, Yuhiro; Ido, Yasushi

Coffee Break

Room: EC1-317

G0.5-0006-24 17:00 - 17:20 (solicited)
Partial Gravity Research Opportunities on the Haven-1 Commercial Space Station
Prejean, Tristan; Caponio, David; Stone, Dennis

G0.5-0007-24 17:20 - 17:35
Realizing Efficient (Photo-)Electrochemical Water-Splitting in Space: An Experimental Set-Up for a Suborbital Rocket Flight
Brinkert, Katharina; Akay, Ömer; Romero-Calvo, Álvaro; Walayat, Khuram; Becker, Julian

G0.5-0008-24 17:35 - 17:55 (solicited)
Unlocking the Low Earth Orbit Economy – Autonomous in-orbit operation, return of materials from space, and complementary hypergravity capabilities
Radocea, Adrian Team: Varda Space Industries & Improved Pharma p. 461

G0.5-0009-24 17:55 - 18:10
Liquid Propellant Mass Gauging Using Modal Analysis
Crosby, Kevin

G0.5-0010-24 18:10 - 18:30 (solicited)
Science in space, the hardware and pathways to commercial efforts.
Savin, Kenneth; Mulligan, Molly; Tuma, Stephen

Sun, Jul 14, 2024

PE.2 Current Trends, Initiatives And Research In Education And Outreach For Space Sciences

Main Scientific Organizer: Rojas, Gustavo
Deputy Organizer: Benitez Herrera, Sandra

Room: EC1-314

PE.2-0001-24 09:00 - 09:30
Sora-Tourism Japan; How does sora-tourism relate to the realization of individual and social well-being?
Agata, Hidehiko

PE.2-0002-24 09:30 - 10:00
The CESAR project: educational tools and resources
Benitez Herrera, Sandra

PE.2-0003-24 10:00 - 10:30
A comprehensive Applied Space Weather Research graduate program for professionals to meet academia and commercial needs for space weather expertise
Poh, Gangkai; Robinson, Robert; Uritsky, Vadim; Kraemer, Steven

Coffee Break

Room: EC1-314

PE.2-0004-24 11:00 - 11:30
Elevating education: EgSA's cansat hackathon and beyond in the cosmic classroom
Elshorbge, Abdelrahman; Farrag, Ahmed; Mahmoud, Ayman

PE.2-0005-24 11:30 - 12:00
Japanese Space Education for Upper Secondary School Students
Inoue, Maki; Akiyama, Hiroaki; Tomita, Akihiko

PE.2-0006-24 12:00 - 12:30
Give me a home among the asteroids
Heary, Auriol

Lunch Break

Room: EC1-314

PE.2-0007-24 15:00 - 15:30
Space Exploration Outreach Activities for Space Situational Awareness (SSA)
Lee, Regina; Ong, Joel; Lee, Regina S. K.

PE.2-0008-24 15:30 - 16:00
Global Collaborations and Inclusive Outreach: Highlights from the Moon Village Association's 2023 Initiatives, with a Focus on the Italian-Organized Space Summer School
Bartoloni, Alessandro

PE.2-0009-24 16:00 - 16:30
EXPLORE - an innovative approach to space education as a training tool
Groemer, Gernot; Doran, Rosa; Oezdemir-Fritz, Seda

Coffee Break

Room: EC1-314

PE.2-0010-24 17:00 - 17:30
Integration of Space Sciences in School Curricula: A Case Study of Egypt
Morcos, Abd El Fady

PE.2-0011-24 17:30 - 18:00

Closing Educational Gap: Cosmic Particles Hands-on Experience for Rural Schools in Thailand
Panyaphirawat, Thirasak; Nuntiyakul, Waraporn; Seripienlert, Achara; Somboon, Ekkarach; Pagwhan, Audcharaporn; Asawatangtrakuldee, Chayanit; Maburee, Jetsada; Komonjinda, Siramas; Sonsrettee, Wirin; Duangjai, Budsayarat; Khamphakdee, Sidarat; Yakum, Panutda; Chainoi, Kotchanipa; Madsen, James; Tredinnick, Ross; Ponto, Kevin; Gagnon, David; Axani, Spencer

PE.2-0012-24 18:00 - 18:30

Astrobiology: an integral transformative educational methodology fostering respect for life
Perkins, Deborah Kala

Sun, Jul 14, 2024

PPP.3 Planetary Protection Research and Development

Main Scientific Organizer: Doran, Peter
Deputy Organizer: Olsson-francis, Karen

Room: EC1-214

PPP.3-0001-24 09:00 - 09:15

Bacterial and fungal bioburden reduction using various sterilization techniques for forward planetary protection
Kimura, Shunta; Ishikawa, Shu; Hayashi, Nobuya; Fujita, Kazuhisa; Suzuki, Shino

PPP.3-0002-24 09:15 - 09:30

Evaluation of a decontamination solution using UV-C LEDs
Faye, Delphine; Caria, Corinne; Colombo, Frédéric; Teyssier, Jérôme

PPP.3-0003-24 09:30 - 09:45

Contamination Control in Non-clean Room Settings: Lessons from the Atacama Rover Astrobiology Drilling Studies (ARADS) and Application to Ocean Worlds Exploration
Bonaccorsi, Rosalba; Glass, Brian; Stoker, Carol; Mckay, Chris

PPP.3-0004-24 09:45 - 10:00

Sampling Size Optimization for Bioburden Density Estimation in Planetary Protection
Gribok, Andrei; DiNicola, Michael; Guan, Lisa

PPP.3-0005-24 10:00 - 10:15

ISS External Microorganisms: A Planetary Protection Experiment to Inform Requirements for Crewed Missions to Mars
Regberg, Aaron; Bell, Mary Sue; Davis, Richard; Tschirschwitz, Martin; Wallace, Sarah L.

PPP.3-0006-24 10:15 - 10:30

Discussion 1
Doran, Peter

Coffee Break

Room: EC1-214

PPP.3-0007-24 11:00 - 11:20

Survivable Niches for Microbial Life on the Lunar South Pole
Saxena, Prabal; Regberg, Aaron; Graham, Heather; Bertone, Stefano; Curran, Natalie; Pugel, D.E. (Betsy); Needham, Andrew; Petro, Noah

PPP.3-0008-24 11:20 - 11:40

Charting New Frontiers in Planetary Protection: Metagenomics and the Future of Space Exploration
Venkateswaran, Kasthuri Team: JPL Metagenomics p. 453

PPP.3-0009-24 11:40 - 12:00

Modernizing Molecular Techniques for Planetary Protection for Robotic Planetary Missions
Cutts, James; Avila, Arturo

PPP.3-0010-24 12:00 - 12:15

Using genome-centric metagenomics and phenotype predictions to estimate the survivability of microbes on icy moons at a new level of detail
Mahnert, Alexander; Medicus, Tobias; Kumpitsch, Christina; Moissl-Eichinger, Christine; Carter, Jonathan; Sephton, Mark; Sinibaldi, Silvio; Rattei, Thomas; Rettberg, Petra

PPP.3-0011-24 12:15 - 12:30

Discussion 2
Doran, Peter

Lunch Break

Room: EC1-214

PPP.3-0012-24 15:00 - 15:20

Developing a probabilistic approach to planetary protection: back to basics
Olsson-Francis, Karen; Sephton, Mark; Carter, Jonathan; Stephens, Ben; Macey, Michael; Kucukkilic-Stephens, Ezgi; Fernandes, Wewerly; Khokan, Mahfuzur

PPP.3-0013-24 15:20 - 15:40

A Bayesian statistical approach to planetary protection
Sephton, Mark; Khokan, Mahfuzur; Carter, Jonathan; Olsson-Francis, Karen; Stephens, Ben; Macey, Michael; Kucukkilic-Stephens, Ezgi; Fernandes, Wewerly

PPP.3-0014-24 15:40 - 16:00

Designing an ultraviolet illumination system for Mars Sample Return's Capture, Containment & Return System
Micalizzi, Frankie; Cataldo, Giuseppe; Chambers, Victor J.; Hardwick, Terra; Hughes, David; Pellerano, Fernando

PPP.3-0015-24 16:00 - 16:15

Proteinaceous Particles Inactivation for Outbound and Return Sample Missions
Seto, Emily; Hirsch, Aspen; Schubert, Wayne; Paul, Kacy; Ross, Eric; Chernoff, Yury

PPP.3-0016-24 16:15 - 16:30

Discussion 3
Doran, Peter

Coffee Break

Room: EC1-214

PPP.3-0017-24 17:00 - 17:15

Planetary Protection Design for Decontamination of Entities Without Cellular Organization (Prions) in Returning Mars Samples to Inform Sample Receiving Facility Protocols
Seto, Emily; Hirsch, Aspen; Simpson, Anna; Paul, Kacy; Chernoff, Yury; Ross, Eric; Blachowicz, Adriana; Howard, Chris; Schubert, Wayne; Sanders, Angela; Shirey, Timothy; Singh, Nitin Kumar

PPP.3-0018-24 17:15 - 17:30

AMSTAE - Antarctic MSR Sample Tube Analog Experiment
Doran, Peter; Adams, Byron; Benardini, James

PPP.3-0019-24 17:30 - 17:50

Update of COSPAR Sample Safety Assessment Framework (SSAF) by Advanced Analogue Rock Analysis
Suzuki, Yohey; Kouduka, Mariko; E. Brenker, Frank; Brooks, Tim; Glamoclija, Mihaela; V. Graham, Heather; L. Kieft, Thomas; M. Mccubbin, Francis; A. Sephton, Mark; A. van Zuilen, Mark

PPP.3-0020-24 17:50 - 18:10

SRL Parachute Bioburden Reduction Approaches and Thermal Validation Test
Chen, Fei; Peterson, Kirin; Siegel, Katherine; Bescup, John; Avasapian, Saro; Rios, Eduardo

PPP.3-0021-24 18:10 - 18:30

Q/A and discussion on Planetary Protection issues
Coustenis, Athena; Doran, Peter; Olsson-francis, Karen

Sun, Jul 14, 2024

PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation

Main Scientific Organizer: Fuke, Hideyuki
Deputy Organizer: Dubourg, Vincent

National Reports

Room: CON-105

PSB.1-0001-24 (WITHDRAWN) 09:00 - 09:30 (solicited)

NASA Balloon Program Overview
Udinski, Edward

PSB.1-0002-24 09:30 - 10:00 (solicited)

French balloon activities 2022-2024: National report
Dubourg, Vincent; Louvel, Stéphane; Venel, Stephanie; Vacher, Francois; Deschamps, Adrien

PSB.1-0003-24 10:00 - 10:30 (solicited)

SWEDISH BALLOON ACTIVITIES SINCE LAST COSPAR ASSEMBLY 2022 AND SOME HISTORY
Abrahamsson, Mattias; Andersson, Kent; Pettersson, Henrik

Coffee Break

National Reports
Room: CON-105

PSB.1-0004-24 11:00 - 11:30 (solicited)

STRATOSPHERIC BALLOONING ACTIVITIES IN AUSTRALIA
Sood, Ravi

PSB.1-0005-24 11:30 - 12:00 (solicited)

Recent Developments of Scientific Ballooning at TIFR Balloon Facility, Hyderabad, India
Ojha, Devendra

PSB.1-0006-24 12:00 - 12:30 (solicited)

Recent Progress and Prospects of Scientific Balloon Activities in Japan
Fuke, Hideyuki; Yoshida, Tetsuya

Lunch Break

Ballooning Technologies
Room: CON-105

PSB.1-0007-24 15:00 - 15:20

Design, Fabrication and Launch of Newly Developed Small Zero Pressure Balloons for Floating at Coldest Tropospheric Altitudes and Stratospheric Zero Pressure Balloons for Human Flights and Space Tourism
Godi, Stalin Peter; Buduru, Suneel Kumar; Neerudu, Nagendra; Ojha, Devendra

PSB.1-0008-24 15:20 - 15:40

Application of mass particle methods in the shape design for scientific balloons
Zhang, Hangyue; Yang, Yanchu; Cai, Rong

PSB.1-0009-24 (WITHDRAWN) 15:40 - 16:10

NASA Super Pressure Balloon Technology Update
Fairbrother, Debora; Udinski, Edward

PSB.1-0010-24 16:10 - 16:30

Perspectives in long duration balloons vehicles and systems
Dubourg, Vincent; Venel, Stephanie; Vacher, Francois; Valero, Colette; Sosa-Sesma, Sergio

Coffee Break

Astrobiology, Ballooning Technologies
Room: CON-105

PSB.1-0011-24 17:00 - 17:20

The Biopause project: balloon experiments to observe the upper boundary of the terrestrial biosphere
Ohno, Sohsuke; Miyake, Norimune; Okudaira, Osamu; Ishibashi, Ko; Kawaguchi, Yuko; Maeda, Keisuke; Yamada, Manabu; Yamatani, Masahiro; Iijima, Issei; Takahashi, Yusuke; Yamagishi, Akihiko; Segawa, Takahiro; Nonaka, Satoshi; Fuke, Hideyuki

PSB.1-0012-24 17:20 - 17:40

AIRLIFTS: A PROPOSAL FOR AN EUROPEAN AIRBORNE INFRASTRUCTURE FOR SCIENTIFIC RESEARCH INVESTIGATIONS
Ghysels-Dubois, Mélanie Team: AIRLIFTS p. 446

PSB.1-0013-24 17:40 - 18:10

Discussion: Hydrogen – a new old way to fly balloons
Abrahamsson, Mattias

PSB.1-0014-24 18:10 - 18:30

DISCUSSION: HYDROGEN – A NEW OLD WAY TO FLY BALLOONS 2
Abrahamsson, Mattias

Sun, Jul 14, 2024

PSW.10 Radio Observations for Space Weather

Main Scientific Organizer: Bisi, Mario M.

Room: EC1-315

PSW.10-0001-24 15:00 - 15:15 (solicited)
Benefits of LOFAR telescope and space-born radio diagnostics for space science and applications
Rothkaehl, Hanna; Matyjasiak, Barbara; Pozoga, Mariusz; Grzesiak, Marcin; Tomasik, Lukasz; Przepiórka-Skup, Dorota

PSW.10-0002-24 15:15 - 15:30
DART: solar observations and space weather forecast
Zhao, Xinhua; Yan, Jingye; Wu, Lin; Yang, Yang; Lv, Xuning; Deng, Li; Wu, Ji; Wang, Chi

PSW.10-0003-24 15:30 - 15:45
CALLISTO SOLAR RADIO BURSTS OBSERVATIONS PLAN AT TIMAU NATIONAL OBSERVATORY OF INDONESIA (TNOI)
Manik, Timbul; Sitompul, Peberlin Parulian; Batubara, Mario; Lathif, Musthofa; Mumtahana, Farahhati; Kesumaningrum, Rasdewita; Suryana, Rizal; Nurul Huda, Ibnu; Rachman, Abdul; Anwar, Radial; Hidayat, Taufiq; Monstein, Christian A.

PSW.10-0004-24 15:45 - 16:00
Can a type II radio burst occur without a coronal mass ejection?
Kumari, Anshu; Gopalswamy, Nat

PSW.10-0005-24 16:00 - 16:15
Interplanetary shock imaging radio interferometric array based on small satellites
Deng, Li; Yan, Jingye; Wu, Lin; Zhao, Xinhua; Shen, Fang

PSW.10-0006-24 16:15 - 16:30
Deep Space Weather: radio sounding observations of the solar corona with multi-spacecraft
Molera Calvés, Guifré; Edwards, Jasper; Cimo, Giuseppe; Dirkx, Dominic

Coffee Break

Room: EC1-315

PSW.10-0007-24 17:00 - 17:15
Progress on MUSER and Chinese IPS Telescope Array for Space Weather
Yan, Yihua Team: MUSER p. 455

PSW.10-0008-24 17:15 - 17:30 (solicited)
Probing the Heliosphere with Interplanetary Scintillation observations with the Murchison Widefield Array
Morgan, John

PSW.10-0009-24 17:30 - 17:45
Next generation interplanetary scintillation observation and its application to MHD simulation for Space Weather
Iwai, Kazumasa; Takehara, Daichi; Fujiki, Ken'ichi

PSW.10-0010-24 17:45 - 18:00
UCSD Iterative 3-D Analyses: Solar Wind Forecasts Using ISEE and LOFAR IPS Data
Jackson, Bernard; Tokumaru, Munetoshi; Bracamontes, Matthew; Pieczynski, Benjamin; Buffington, Andrew; Iwai, Kazumasa; Fujiki, Ken'ichi; Bisi, Mario M.

PSW.10-0011-24 18:00 - 18:30
Radio Observations for Space Weather - Discussion
Bisi, Mario M.

Mon, Jul 15, 2024

A2.1 Science and Applications Enabled by Satellite Missions for Global Ocean, Inland Seas, and Cryosphere

Main Scientific Organizer: Vignudelli, Stefano
Deputy Organizer: Fournier, Severine

Satellite missions and services for Earth monitoring

Chair: Shum, C K
Room: EC1-316

A2.1-0001-24 09:00 - 09:30 (solicited)
A role of small satellite constellation to monitor our ocean-atmosphere-solid Earth coupled system
Han, Shin-Chan

A2.1-0002-24 09:30 - 09:50
Applications from pulsar astronomy to determining ocean wind direction from CYGNSS and TRITON
Baker, Daniel; Pen, Ue-Li

A2.1-0003-24 09:50 - 10:10
Potential of angular velocity sensing technology for future gravimetry missions
Yan, Yihao; Müller, Vitali; Heinzel, Gerhard

A2.1-0004-24 10:10 - 10:30
IAS Pilot Service for Science and Operational Applications
Deng, Xiaoli; Shum, C K; Benveniste, Jérôme; Vignudelli, Stefano

Coffee Break

Progress in development and exploitation of satellite ocean colour and optical imagery

Chair: Choi, Jong-Kuk
Room: EC1-316

A2.1-0005-24 11:00 - 11:15
Overview of the Geostationary Ocean Color Imager (GOCI) series
Ahn, Jae-Hyun; Lee, Kyeong-Sang; Moon, Jeong-Eon; Han, Tai-Hyun; Kim, Min-Sang; Park, Myung-Sook; Bae, Su-Jung; Lee, Eun-Kyung; Kang, Geumsil; Jang, Eunna; Lee, Sun-Ju; Choi, Jong-Kuk

A2.1-0006-24 11:15 - 11:30

Observing Surface Current Kinematics with GOCI During Chla Bloom
Choi, Jun Myoung; Hong, Tran Thi My; Park, Young-Gyu; Kim, Wonkook

A2.1-0007-24 11:30 - 11:45

Effectiveness of GOCI-II On-orbit Calibration for Improving Ocean Color Data Accuracy
Park, Myung-Sook; Kim, Min-Sang; Ahn, Jae-Hyun; Lee, Sun-Ju; Choi, Jong-Kuk

A2.1-0008-24 11:45 - 12:00

Leveraging Multi-satellite Data for Monitoring Coastal Ocean Issues: A Focus on Harmful Algal Blooms, Floating Algae and Debris
Park, Young-Je; Han, Hee-Jeong; Moon, Jeong-Eon; Kim, Kwangseok

A2.1-0009-24 12:00 - 12:15

Combining Observation and Simulation via Machine Learning for Red Tide Detection in Satellite Data
Kim, Wonkook

A2.1-0010-24 12:15 - 12:30

Investigation of wave breaking by internal solitary waves using satellite optical imagery in the Lombok Strait, Indonesia
Chonnaniyah, Chonnaniyah; Osawa, Takahiro; As-Syakur, Abd. Rahman

Mon, Jul 15, 2024

B1.1 Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense

Main Scientific Organizer: Milam, Stefanie
Deputy Organizer: Palomba, Ernesto

Planetary Defense (Future Activities)

Chair: Nakamura, Tomoki
Room: EC1-215

B1.1-0018-24 09:00 - 09:15

An Update on Planetary Defense Efforts in the United States
Landis, Rob; Fast, Kelly; Johnson, Lindley

B1.1-0019-24 09:15 - 09:45 (solicited)

The Near-Earth Object Surveyor Mission: Finding Asteroids & Comets Before They Find Us
Mainzer, Amy Team: Near-Earth Object Surveyor Science Team p. 455

B1.1-0020-24 09:45 - 10:15 (solicited)

Latest Research Progress of Chinese Planetary Defense
Li, Mingtao

B1.1-0021-24 10:15 - 10:30

Current Status of Hayabusa2 Extended Mission
Mimasu, Yuya; Tanaka, Satoshi; Saiki, Takanao; Nakazawa, Satoru; Yoshikawa, Makoto; Tsuda, Yuichi

Coffee Break

Planetary Defense (Characterization)

Chair: Rivkin, Andrew
Room: EC1-215

B1.1-0022-24 11:00 - 11:30

Characterization of fast moving Potential Hazardous Asteroids
Silha, Jiri; Jevcak, Peter; Gresnarova, Tatiana; Hrobar, Tomas; Zigo, Matej; Bartkova, Daniela

B1.1-0023-24 11:30 - 11:50

Joint Optical-Radar Contributions for the Detection of Near-Earth Asteroids from the Southern Hemisphere
Kruzins, Ed; Benner, Lance A. M.; Brown, Melrose; Coward, David; Edwards, Philip; Giorgini, Jon; Gendre, Bruce; Horiuchi, Shinji; Kennewell, John; Lambert, Andrew; Lazio, Joseph; Mieczkowska, Dorota; Molera Calvés, Guifré; Moore, John; Peters, Edwin; Phillips, Chris; Stacy, Nick; Stevens, Jamie; Verveer, Arie

B1.1-0024-24 11:50 - 12:10

Improving YORP Effect Estimates for Small Bodies with Surface Data
Baker, Dahlia; Mcmahon, Jay

B1.1-0025-24 12:10 - 12:30

The TRANSient NEO population: asteroids, comets... or none of the above?
Ieva, Simone; Ishiguro, Masateru; Perna, Davide; Dotto, Elisabetta; Mazzotta Epifani, Elena; Petropoulou, Vasiliki; Deshapriya, J. D. P.; Hasselmann, Pedro H.; Bourdelle de Micas, Jules; Bach, Yoonsoo P.; Jin, Sunho

Mon, Jul 15, 2024

B3.1 Lunar Science and Exploration

Main Scientific Organizer: Bhatt, Megha
Deputy Organizer: Foing, Bernard H.

Lunar Exploration: Charting the Future

Chair: Narendranath, Shyama
Room: EC1-217

B3.1-0025-24 09:00 - 09:15 (solicited)

Indian Lunar Exploration Program
Bhardwaj, Anil

B3.1-0026-24 09:15 - 09:30

NASA's VIPER Mission: Status, Science and Artemis connections
Korsmeyer, David

B3.1-0027-24 09:30 - 09:45

International Lunar Year 2027: Advancing Lunar Science and Exploration Globally
Klima, Rachel; Neal, Clive; Pieters, Carle; Jawin, Erica; Barnes, Jessica; Keane, James; Hanlon, Michelle; Prockter, Louise

B3.1-0028-24 09:45 - 10:00

FIVE YEARS OF RADIATION MEASURMENTS ON THE FAR SIDE OF THE MOON – RESULTS FROM THE LUNAR LANDER NEUTRON AND DOSIMETRY EXPERIMENT ON CHANG'E-4
Yang, Liu; Wimmer-Schweingruber, Robert; Zhang, Shenyi; Xu, Zigong; Berger, Thomas; Boettcher, Stephan

B3.1-0029-24 10:00 - 10:15

Exploring the Moon in the Thermal Infrared: 15 Years of LRO Diviner and Beyond
Greenhagen, Benjamin; Paige, David; Willams, Jean-Pierre; Bennett, Kristen; Bowles, Neil; Hayne, Paul; Donaldson Hanna, Kerri; Cahill, Joshua

B3.1-0030-24 10:15 - 10:30

Introducing ispace Europe's Micro-Rover and Its Contributions to Lunar Science and Payload Delivery
Casanova, Sophia

Coffee Break

Compositional and Physical properties of Lunar Terrains

Chair: Bhardwaj, Anil
Room: EC1-217

B3.1-0031-24 11:00 - 11:15

Lunar geochemistry with Chandrayaan-2 Large Area Soft X-ray Spectrometer
Narendranath, Shyama; Pillai, Netra

B3.1-0032-24 11:15 - 11:30

Mineral and Space-Weathering Maps of the Moon Using Elemental Abundances as Prior Information
Hess, Marcel; Wöhler, Christian; Kim, Kyeong; Yi, Eungseok; Kim, Suyeon; Hong, Ik-Seon

B3.1-0033-24 11:30 - 11:45

Lunar Surface Neutron and Gamma-ray Modeling for Water Detection and Performance Validation of KGRS's BLPS and GNS using Monte Carlo Simulation
Kim, Sangwoo; Kim, Kyeong; Park, Junghun; Yi, Eungseok; Hess, Marcel; Hong, Ik-Seon; Kim, Suyeon; Kwon, Gyeongrok

B3.1-0034-24 11:45 - 12:00

Multi-band UV-VIS-NIR imaging spectropolarimetry of lunar terrains
Wöhler, Christian; Arnaut, Mirza; Bhatt, Megha

B3.1-0035-24 12:00 - 12:15

Lunar Swirls: Outcomes from systematic spectral and physical characterisation
Bhatt, Megha; Wöhler, Christian; Hess, Marcel; Arnaut, Mirza; Aravind, K.; Ganesh, Shashikiran; Bhardwaj, Anil

B3.1-0036-24 12:15 - 12:30

Role of Autonomy and Mobility Assessment for Rover Sustenance on Lunar South Pole and Beyond
Rashed, Mohammed Irfan; Bang, Hyochoong

Mon, Jul 15, 2024

B5.1 Jupiter, the Galilean Satellites, Rings and Magnetospheres: Juno Results

Main Scientific Organizer: Bolton, Scott
Deputy Organizer: Connerney, John E.p.

Room: EC1-216

B5.1-0001-24 09:00 - 09:20

Juno Microwave Radiometer Measurements of the Depths of Spatial and Temporal Variability in Jupiter
Orton, Glenn; Zhang, Zhimeng; Levin, Steven; Fletcher, Leigh; Oyafuso, Fabiano; Li, Cheng; Brueshaber, Shawn; Wong, Michael H.; Momary, Thomas; Bolton, Scott; Baines, Kevin; Sinclair, James; Dahl, Emma

B5.1-0002-24 09:20 - 09:35

The mechanisms controlling the location, number, stability, and motion of Jupiter's circumpolar cyclones
Kaspi, Yohai; Gavriel, Nimrod

B5.1-0003-24 09:35 - 09:55

Juno Results on the Origin and Evolution of Jupiter
Bolton, Scott; Lunine, Jonathan; Stevenson, David John; Li, Cheng; Atreya, Sushil K.; Iess, Luciano; Park, Ryan; Militzer, Burkhard; Helled, Ravit; Levin, Steven; Guillot, Tristan Team: Juno Mission Science Team p. 453

B5.1-0004-24 09:55 - 10:15

Late addition of heavy elements to giant planet atmospheres: constraints from cometary compositions
Lunine, Jonathan; Li, Cheng; Guillot, Tristan; Atreya, Sushil K.; Helled, Ravit; Truong, Ngoc; Bolton, Scott; Waite, Hunter

B5.1-0005-24 10:15 - 10:30

Multi-Wavelength Observations of Jupiter's Northern Circumpolar Cyclones
Bolton, Scott; Brueshaber, Shawn; Orton, Glenn; Hansen, Candice; Levin, Steven; Mura, Alessandro; Grassi, Davide; Fletcher, Leigh; Eichstaedt, Gerald; Ingersoll, Andrew; Ermakov, Anton; Li, Cheng Team: Juno Mission Science Team p. 453

Coffee Break

Room: EC1-216

B5.1-0006-24 11:00 - 11:30

Jupiter's circumpolar cyclones revealed from Juno microwave observations
Li, Cheng; Hu, Jiheng; Zhang, Zhimeng; Oyafuso, Fabiano; Levin, Steven; Bolton, Scott

B5.1-0007-24 11:30 - 11:45

Revisiting Alkali Metal Abundances in Jupiter's Deep Atmosphere
Aglyamov, Yury; Atreya, Sushil K.; Bhattacharya, Ananyo; Li, Cheng; Levin, Steven; Bolton, Scott

B5.1-0008-24 11:45 - 12:00

Modeling Lightning in Non-Aqueous Clouds of the Giant Planets
Aglyamov, Yury; Lunine, Jonathan; Atreya, Sushil K.; Becker, Heidi; Guillot, Tristan; Bolton, Scott; Li, Cheng; Bhattacharya, Ananyo; Orton, Glenn

B5.1-0009-24 12:00 - 12:15

In-situ observation of Jovian decametric emission: comparisons with inversion method based on remote-sensing observations
Zheng, Ruobing; Wang, Yuming

B5.1-0010-24 12:15 - 12:30

Magnetic field observations near Io: Juno flyby results
Gershman, Dan; Connerney, John; Jørgensen, John; Herceg, Matija; Kotsiaros, Stavros; Bolton, Scott

Mon, Jul 15, 2024

C0.2 Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies

Main Scientific Organizer: Rees, David
Deputy Organizer: Kosch, Michael

Room: EC1-311

C0.2-0017-24 11:00 - 11:20

The Development of TeraHz Limb Sounder (TLS) for Global Thermospheric Wind, Temperature, and Density Measurements
Yee, Jeng-Hwa; Mehdi, Imran

C0.2-0018-24 11:20 - 11:40

Agile Collaboration: Citizen Science as a Transdisciplinary Approach to Heliophysics
Ledvina, Vincent; Hampton, Don; Macdonald, Elizabeth; Brandt, Laura

C0.2-0019-24 11:40 - 12:00

EZIE: A Cubesat Mission to Study The Electrojets
Gjerloev, Jesper

C0.2-0020-24 12:00 - 12:20

Point source methane emissions monitoring via space-based LiDAR
Rees, David; Stepanova, Daria

Coffee Break

Room: EC1-311

C0.2-0021-24 09:00 - 09:20

FUV Remote Sensing of aurora, thermosphere and ionosphere
Zhang, Yongliang; Paxton, Larry; Schaefer, Robert

C0.2-0022-24 09:20 - 09:40

Space Weather Ionospheric Network Canada
Watson, Chris; Jayachandran, Thayyil; Kashcheyev, Anton; Themens, David R.; Langley, R; McCaffrey, Anthony; Reuschel, Torsten; Meziane, Karim; Hamza, A. M.; Koloskov, Alex; Richard, Chadwick; Trottier, Philippe

C0.2-0023-24 (WITHDRAWN) 09:40 - 10:00

High precision determination of atmospheric density based on the precise orbit ephemerides of GRACE-A
Ren, Tingling; Luo, Bingxian; Miao, Juan; Wang, Xin; Shi, Shengwei; Liu, Siqing

C0.2-0024-24 10:00 - 10:20

Mapping ionospheric electrodynamics with the Electrojet Zeeman Imaging Explorer
Laundal, Karl; Madelaire, Michael; Gjerloev, Jesper; Hatch, Spencer; Tesema, Fasil; Decotte, Margot; Vanhamäki, Heikki; Mesquita, Rafael

Mon, Jul 15, 2024

C1.3 Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources

Main Scientific Organizer: Kwak, Young-Sil
Deputy Organizer: Kil, Hyosub

IT response to earthquakes and volcanic eruptions

Chair: Lei, Jiuhou
Room: EC1-313

C1.3-0011-24 09:00 - 09:20 (solicited)

Acoustic Wave Signatures of the Traveling Ionospheric Disturbances Following the 2024 Noto Peninsula Earthquake: Total Electron Content Observations by Ultra-Dense GNSS Receiver Networks
Otsuka, Yuichi; Fu, Weizheng; Sinbori, Atsuki; Sori, Takuya; Nishioka, Michi; Perwitasari, Septi

C1.3-0012-24 09:20 - 09:35

D-region ionospheric variations associated with the 2024 Noto earthquake using OCTAVE LF transmitter signals
Ohya, Hiroyo; Tsuchiya, Fuminori

C1.3-0013-24 09:35 - 09:55

Simulation of atmosphere-ionosphere variations driven by the eruption of Hunga Tonga-Hunga Ha'apai on 15 January 2022
Shinagawa, Hiroyuki; Miyoshi, Yasunobu

C1.3-0014-24 09:55 - 10:15 (solicited)

Investigating New Insights into the Ionospheric and Thermospheric Responses to the Tonga Volcanic Eruption
Li, Ruoxi

C1.3-0015-24 10:15 - 10:30

Did The Tonga Eruption Impact the Accuracy of GNSS Receivers Over Indonesia?
Afero, Faruk; Dear, Varuliantor

Coffee Break

Ionospheric perturbations caused by rockets and natural sources

Chair: Lee, Woo Kyoung
Room: EC1-313

C1.3-0016-24 11:00 - 11:20 (solicited)

Atmospheric Wave Effects Induced by the Antropogenic Orbiter Launches
Lin, Charles; Rajesh, P. K.; Chou, Marty; Chen, Shih-Ping; Shen, Mitchell; Chou, Minyang

C1.3-0017-24 11:20 - 11:40

Ionospheric plasma density perturbations triggered by the launches of 2021 and 2023 Korea rockets: observations from FOMOSAT7/COSMIC2 IVM and GNSS receivers
Choi, Jongmin; Lin, Charles; Rajesh, P. K.; Huang, Ray; Tsai, Ho-Fang; Kwak, Young-Sil

C1.3-0018-24 11:40 - 12:00 (solicited)

Meso-scale perturbations of the upper thermosphere as observed by GRACE and GRACE-FO
Park, Jaeheung; Van Den IJssel, Jose; Xiong, Chao; Song, Hosub

C1.3-0019-24 12:00 - 12:15

Daytime ionospheric irregularities in the ionosphere observed at mid and low latitudes over the East-Asia sector using GPS-TEC
Nguyen, Hoang; Kwak, Young-Sil; Lee, Woo Kyoung; Kil, Hyosub

C1.3-0020-24 12:15 - 12:30

The Ionosphere at Middle and Low Latitudes Under Geomagnetic Quiet Time of December 2019
Kuai, Jiawei; Zhong, Jiahao; Sun, Hao; Liu, Libo

Mon, Jul 15, 2024

C3.1 Planetary Atmospheres

Main Scientific Organizer: Justh, Hilary L.
Deputy Organizer: Esposito, Larry W.

Room: EC1-213

C3.1-0001-24 09:00 - 09:30 (solicited)

Observational properties of an unknown absorber(s) in the clouds of Venus
Lee, Yeon Joo

C3.1-0002-24 09:30 - 09:45

Venus atmospheric "dichotomy"
Titov, Dmitrij

C3.1-0003-24 09:45 - 10:15 (solicited)

Water Loss from Mars: a Whole-Planet Perspective
Chaffin, Michael

C3.1-0004-24 10:15 - 10:30

Mars Wind and Wave Mapping (MWWM)
Machado, Pedro; Brasil, Francisco; Cardesin-Moinelo, Alejandro; Gilli, Gabriella; Silva, Jose; Riu, Lucie; Carter, John; Tirsch, Daniela; Wilson, Colin

Coffee Break

Room: EC1-213

C3.1-0005-24 11:00 - 11:30 (solicited)

Jupiter's atmospheric dynamics as revealed by the Juno mission
Kaspi, Yohai

C3.1-0006-24 11:30 - 11:45

JWST/NIRCAM views of Jupiter's polar regions
Antuñano, Arrate; Rodriguez-Ovalle, Pablo; Hueso, Ricardo; Fouchet, Thierry; Sanchez-Lavega, Agustin; De Pater, Imke; Orton, Glenn; Fletcher, Leigh; Cavalie, Thibault; López-Puertas, Manuel

C3.1-0007-24 11:45 - 12:00

Blowing in the Wind: Temporal Variability of Titan's High-Altitude Circulation System
Cordiner, Martin; Marlin, Theresa; Young, Eliot; Nixon, Conor; Cosentino, Richard; Newman, Claire; Lombardo, Nicholas; Teanby, Nicholas; Charnley, Steven; Light, Siobhan

C3.1-0008-24 12:00 - 12:15

DRAMATIC Planets: Global climate modelings of Mars, Venus, and exoplanets for various ages
Kuroda, Takeshi; Kamada, Arihiro; Kobayashi, Mirai; Kodama, Takanori

Mon, Jul 15, 2024

C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres

Main Scientific Organizer: Haider, Syed A.
Deputy Organizer: Kuroda, Takeshi

Magnetosphere-Ionosphere of Mars and Venus

Chair: Dibraccio, Gina
Room: EC1-312

C3.2-0001-24 09:00 - 09:15

Thermal structure of the Martian mesosphere and thermosphere as observed by ACS/TGO spectrometry
Belyaev, Denis; Fedorova, Anna; Alday, Juan; Trokhimovskiy, Alexander; Starichenko, Ekaterina; Montmessin, Franck; Korablev, Oleg

C3.2-0002-24 09:15 - 09:35 (solicited)

Chemistry of Hydrated, Nitrogenized and Deuterated cluster ions in the lower atmosphere of Mars: TGO measurements
Haider, Syed A.; Shah, Siddhi Y; Korablev, Oleg

C3.2-0003-24 09:35 - 09:50

Characterization of Turbulence and Dust Devils at Different Locations on Mars
Sheel, Varun; Spiga, Aymeric; Kalita, Tirtha

C3.2-0004-24 09:50 - 10:10 (solicited)

Ion escape and current systems at Mars
Holmstrom, Mats; Zhang, Qi; Wang, Xiao-Dong; Nilsson, Hans; Barabash, Stas

C3.2-0005-24 10:10 - 10:30 (solicited)

Different faces of the Martian magnetosphere
Dubinin, Eduard; Modolo, Ronan; Fraenz, Markus; Paetzold, Martin; Tellmann, Silvia; Dibraccio, Gina; Xu, Shaosui; Fan, Kai; Wei, Yong

Coffee Break

Continued 1(Magnetosphere-Ionosphere of Mars and Venus)
Chair: Dubinin, Eduard
Room: EC1-312

C3.2-0006-24 11:00 - 11:30 (solicited)
Magnetosphere – ionosphere interactions at Mars and Venus: outstanding science questions
Barabash, Stanislav; Ramstad, Robin

C3.2-0007-24 11:30 - 11:45
Multi-scale climate modeling and the connenction to upper atmosphere on Mars: Gravity waves, CO2 snowfall, water and dust cycles
Kuroda, Takeshi; Kamada, Arihiro

C3.2-0008-24 (WITHDRAWN) 11:45 - 12:00
Topside radar sounder observations of the transient layers in the Martian topside ionosphere
Narukull, Venkateswara Rao

C3.2-0009-24 12:00 - 12:15
Mass Dependent Response of Gravity Waves in the Martian Thermosphere
Vulapati, Leelavathi; Narukull, Venkateswara Rao

C3.2-0010-24 12:15 - 12:30
Impact of space weather events on the variation of Martian ionospheric composition and M2 peak parameters.
Ram, Lot; Rout, Diptiranjan; Rathi, Rahul; Halekas, Jasper; Withers, Paul; Sarkhel, Sumanta

Mon, Jul 15, 2024

D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres

Main Scientific Organizer: Gil, Agnieszka
Deputy Organizer: Engelbrecht, Nicholas Eugene

Room: CON-101

D1.1-0021-24 09:00 - 09:15
Dropouts in Solar Energetic Particles as Observed using Parker Solar Probe
Ruffolo, David; Rankin, Jamie; Cuesta, Manuel; Mitchell, Grant; Shen, Mitchell; Tooprakai, Paisan; Chuychai, Piyanate; Cohen, Christina; Giacalone, Joe; Matthaeus, William; McComas, David; Szalay, Jamey; Wiedenbeck, Mark

D1.1-0022-24 09:15 - 09:30
Cosmic Ray Anisotropy, Time-Variability, and Chaotic Trajectories in the Heliosphere
López-Barquero, Vanessa; Desiati, Paolo

D1.1-0023-24 09:30 - 09:45
First Observations of CIR-Associated Energetic Protons within 50 Solar Radii
Starkey, Michael; Dayeh, Maher; Desai, Mihir; Hart, Samuel; Bucik, Radoslav; Elliott, Heather

D1.1-0024-24 09:45 - 10:00
Probing Particle Acceleration in Solar Energetic Particle Events through Radio Bursts
Kumari, Anshu; Gopalswamy, Nat; Morosan, Diana; Makela, Pertti; Mohan, Atul

D1.1-0025-24 10:00 - 10:15
Energy spectra of 300 keV to 1 MeV electrons from the SOHO Electron Proton Helium INstrument (EPHIN)
Jensen, Stefan; Heber, Bernd; Hörlöck, Malte; Kollhoff, Alexander; Kühl, Patrick; Sierks, Holger

D1.1-0026-24 10:15 - 10:30
Relativistic Electrons Energized by Reinforced Shock Acceleration
Raptis, Savvas; Lalti, Ahmad; Lindberg, Martin; Turner, Drew; Caprioli, Damiano; Burch, James

Coffee Break

Room: CON-101

D1.1-0027-24 11:00 - 11:15
The importance of 3D galactic cosmic ray transport modelling in astrospheres
Light, Juandre; Engelbrecht, Nicholas Eugene

D1.1-0028-24 11:15 - 11:30
Understanding the cause and consequence of an unexpected large depression observed in the flux of cosmic rays in 2017
Aslam, O. P. M.; Potgieter, Marius S; Ngobeni, Donald

D1.1-0029-24 11:30 - 11:45
CHARGE SIGN DEPENDENCE OF RECURRENT FORBUSH DECREASES IN 2016
Romaneehsen, Lisa; Heber, Bernd; Marquardt, Johannes

D1.1-0030-24 11:45 - 12:00
Properties of Forbush Decreases with AMS-02 daily Proton, Helium and Electron data
Wang, Siqi; Bindi, Veronica; Corti, Claudio; Consolandi, Cristina; Nikonov, Nikolay; Kuhlman, Andrew

D1.1-0031-24 12:00 - 12:15
A numerical study of the time-lag in galactic cosmic ray modulation
Song, Xiaojian; Luo, Xi

D1.1-0032-24 (WITHDRAWN) 12:15 - 12:30
Solar granulation-generated chromospheric heating and plasma outflows in two-fluid magnetic arcade.
Kumar, Mayank; Murawski, Kris; Kuźma, Błażej; Kilpua, Emilia; Kadowaki, Luis H.s.; Poedts, Stefaan; Erdelyi, Robert

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D2.1-E3.1 Off-the-Sun-Earth-Line(OSEL) Missions

Main Scientific Organizer: Gopalswamy, Nat
Deputy Organizer: Cho, Kyungsuk

Room: CON-104

D2.1-0021-24 (WITHDRAWN) 09:00 - 09:15
Correlation analysis between the initial solar wind speed and 1 AU speed
Il-Hyun, Cho; Moon, Yong-jae; An, Junmo

D2.1-0022-24 09:15 - 09:30
Comparison Between ICMEs Originating from Different Source Regions using Multi-view Observations
Akiyama, Sachiko; Gopalswamy, Nat; Xie, Hong; Yashiro, Seiji; Makela, Pertti

D2.1-0023-24 09:30 - 09:50 (solicited)
Solar ring mission: Building a panorama of the Sun and inner-heliosphere
Wang, Yuming

D2.1-0024-24 09:50 - 10:10
The Mission to Investigate Interplanetary Structures and Transients (MIIST)
Lugaz, Noé; Lee, Christina O.; Al-Haddad, Nada; Lillis, Robert; Curtis, David; Jian, Lan Team: MIIST Team p. 454

D2.1-0025-24 10:10 - 10:30 (solicited)
NOAA Uses, Needs, and Plans for the Off Sun-Earth Line Lagrange Point 5 Observations
Wang, Nai-Yu; Azeem, Irfan; Talaat, Elsayed; Pizzo, V. J.; Adamson, Eric; Steenburgh, Robert

Coffee Break

Room: CON-104

D2.1-0026-24 11:00 - 11:20
How much we can remove the ambiguity of 3-d CME geometry by multi-view observations?
Na, Hyeonock; Moon, Yong-jae

D2.1-0027-24 11:20 - 11:40
A Quantification of the Amount of Magnetic Flux Missing from Global Maps of Photospheric Magnetic Field
Derosa, Marc

D2.1-0028-24 (WITHDRAWN) 11:40 - 11:55
Benefits of solar meridional circulation measurements from non-Earth Vantage Points
Chen, Ruizhu; Zhao, Junwei

D2.1-0029-24 11:55 - 12:10
Stereoscopic Differential Emission Measures from SDO/AIA and SO/EUI with AI-generated EUV data
Youn, Junmu; Lee, Harim; Moon, Yong-jae; Jeong, Hyun-Jin; Park, Eunsu; Auchere, Frederic; Lee, Jin-Yi; Il-Hyun, Cho

Mon, Jul 15, 2024

D2.3-E3.3 Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies

Main Scientific Organizer: Büchner, Jörg
Deputy Organizer: Hoshino, Masahiro

Room: CON-102

D2.3-0019-24 09:00 - 09:30 (solicited)
On the energy dissipation and particle acceleration in turbulent Magnetic reconnection in space plasma
Zhou, Meng; Zhong, Zhihong; Deng, Xiaohua; Pang, Ye

D2.3-0020-24 09:30 - 09:45
Temperature-reducing shocks in turbulent magnetic reconnection
Snow, Ben

D2.3-0021-24 (WITHDRAWN) 09:45 - 10:00
Beta-dependent properties and magnetic reconnection of solar wind current sheets
Vasko, Ivan; Mawhinney, Jack

D2.3-0022-24 10:00 - 10:15
Particle acceleration in asymmetric magnetic reconnection
Walia, Nehpreet; Zhang, Qile; Guo, Fan; Liu, Yi-Hsin

D2.3-0023-24 10:15 - 10:30
Magnetic reconnection in astrophysical jets: application to short gamma-ray bursts
Mattia, Giancarlo; Mignone, Andrea; Bugli, Matteo; Pavan, Andrea; Ciolfi, Riccardo; Del Zanna, Luca

Coffee Break

Room: CON-102

D2.3-0024-24 11:00 - 11:20 (solicited)
Update on reconnection investigation by TREX and MMS
Egedal, Jan

D2.3-0025-24 11:20 - 11:40 (solicited)
Laboratory Observations of Lower Hybrid Drift Waves inside Reconnection Current Sheet
Yoo, Jongsoo; Chen, Li-Jen; Ji, Hantao

D2.3-0026-24 11:40 - 11:55
Alternating flux annihilation and kinetic dynamo in magnetic reconnection of a spatially rotating magnetic field
Choe, Gwangson; Kim, Sunjung; Yi, Sibaek; Lee, Junggi; Lee, Minseon

D2.3-0027-24 11:55 - 12:10
Turbulent reconnection in the Near-Sun and Near-Earth Solar Wind: A Comparison via Observation-Driven 2D Hybrid Simulations
Franci, Luca; Del Sarto, Daniele; Papini, Emanuele; Hellinger, Petr

D2.3-0028-24 12:10 - 12:25
Modulation of reconnection onset by the background plasma beta
Yoon, Young Dae; Moore, Thomas; Yun, Gunsu

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D3.2 Cross-scale Coupling and Multi-point Observations in the Solar Wind and Magnetosphere

Main Scientific Organizer: Stepanova, Marina

Chair: Stepanova, Marina
Room: CON-103

D3.2-0001-24 09:00 - 09:30
Cross-Scale Couplings in Solar Wind-Magnetosphere Interactions
Nykyri, Katariina

D3.2-0002-24 09:30 - 09:45
The Prevalence and Significance of Wave Cross-scale Coupling in the Earth's Magnetosphere and the Solar Wind
Colpitts, Chris; Elliott, Sadie; Cattell, Cynthia; Bale, Stuart; Malaspina, David

D3.2-0003-24 09:45 - 10:00
Multi-scale coupling and energy flow through the magnetopause and magnetotail observed from the MMS, Cluster, and THEMIS spacecrafts
Hajra, Sritam; Dashora, Nirvikar

D3.2-0004-24 10:00 - 10:15
Unveiling the Solar-Terrestrial Coupling: How Indian Mars Orbiter and InSWIM Network Tracked High Speed Solar (HSS) Wind Influence on Magnetosphere-Ionosphere
Jain, Richa Naja; Choudhary, Raj Kumar; Parikh, Umang

D3.2-0005-24 10:15 - 10:30
Ion dynamics across a low Mach number bow shocks
Graham, Daniel; Khotyaintsev, Yuri; Dimmock, Andrew; Lalti, Ahmad; Boldu, Jordi; Tigik F., Sabrina; Fuselier, Stephen

Coffee Break

Chair: Gallardo-Lacourt, Bea
Room: CON-103

D3.2-0006-24 11:00 - 11:30
Cross-scale and multi-scale processes of magnetic reconnection and Kelvin-Helmholtz instability
Hwang, Kyoung-Joo; Burch, James; Dokgo, Kyunghwan; Choi, Eunjin

D3.2-0007-24 11:30 - 11:45
Kelvin-Helmholtz Instability Associated With Reconnection and Ultra Low Frequency Waves at the Ground
Kronberg, Elena; Gorman, Jamie; Nykyri, Katariina; Smirnov, Artem; Gjerloev, Jesper; Grigorenko, Elena; Kozak, Lyudmila; Trattner, Karlheinz

D3.2-0008-24 11:45 - 12:00
Turbulence development in the magnetosheath and its role in the solar wind-magnetosphere coupling
Rakhmanova, Liudmila; Riazantseva, Maria; Khokhlachev, Alexander; Yermolaev, Yuri; Zastenker, Georgy

D3.2-0009-24 (WITHDRAWN) 12:00 - 12:15
Investigating the scale-dependent conversion of turbulent energy in the magnetosheath
Roy, Sohom; Bandyopadhyay, Riddhi; Matthaeus, William; Yang, Yan; Adhikari, Subash

D3.2-0010-24 12:15 - 12:30
Big Picture of Ionospheric Alfvén Wave Turbulence from TRICE-2 Observations
Di Mare, Francesca; Howes, Gregory

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E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

Latest results of Dark Matter Particle Explorer (DAMPLE) and IceCube+IceTop

Chair: Cannady, Nicholas
Room: CON-205

E1.1-0021-24 09:00 - 09:15
Measurement of the all-particle energy spectrum with the DAMPE mission
Cagnoli, Irene Team: DAMPE collaboration p. 450

E1.1-0022-24 09:15 - 09:30
Combined analysis of CNO group with DAMPE
Ma, Pengxiong

E1.1-0023-24 09:30 - 09:45
Recent Gamma-Ray Results from DAMPE
Duan, Kai-Kai; Shen, Zhao-Qiang; Jiang, Wei; Xu, Zunlei; Li, Xiang

E1.1-0024-24 09:45 - 10:00
Latest results and prospect on searching for fractionally charged particles with the DAMPE experiment
Liu, Chengming; Wei, Yifeng

E1.1-0025-24 10:00 - 10:20 (solicited)
Cosmic Ray Measurements with IceCube and IceTop
Soldin, Dennis Team: IceCube p. 452

Coffee Break

Latest results of ISS-CREAM, CALET, and GRAPES-3 VHE cosmic ray detectors

Chair: Chang, Jin
Room: CON-205

E1.1-0026-24 11:00 - 11:20 (solicited)
High Energy Cosmic Ray Measurements with ISS-CREAM
Seo, Eun-Suk Team: ISS-CREAM Collaboration p. 453

E1.1-0027-24 11:20 - 11:35
Analysis result of cosmic-ray proton and helium spectra for the ISS-CREAM experiment
Choi, Gwangho Team: ISS-CREAM p. 452

E1.1-0028-24 11:35 - 11:55 (solicited)
Results from 8 Years of Observations with the Calorimetric Electron Telescope on the ISS
Cannady, Nicholas Team: for the CALET Collaboration p. 450

E1.1-0029-24 11:55 - 12:10
Results of the CALET Ultra-Heavy Cosmic-Ray Analysis
Zober, Wolfgang; Rauch, Brian Team: CALET Collaboration p. 448

E1.1-0030-24 12:10 - 12:30 (solicited)
Cosmic ray spectrum and anisotropy results from the GRAPES-3 experiment
Mohanty, Pravata

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E1.6 Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations

Main Scientific Organizer: Natalucci, Lorenzo
Deputy Organizer: Branchesi, Marica

Neutrinos and other High Energy Transients [2]

Room: CON-110

E1.6-0021-24 09:00 - 09:15
Probing Intermediate-mass Black Holes with Tidal Disruption Events
Chang, Janet; Dai, Jane

E1.6-0022-24 09:15 - 09:30
Unveiling the Dominant Formation Channel of FRBs Using Local Universe Sources
Bhardwaj, Mohit

E1.6-0023-24 09:30 - 09:45
Identification of nine Gamma Ray Bursts with the HEPD-01 detector on board the CSES-01 satellite
Follega, Francesco Maria; Perinelli, Alessio; Iuppa, Roberto; Battiston, Roberto; Ricci, Leonardo Team: on behalf of the CSES-Limadou collaboration p. 455

E1.6-0024-24 09:45 - 10:00
Latest Evolution of the X-Ray Remnant of SN 1987A: Beyond the Inner Ring
Park, Sangwook

E1.6-0025-24 10:00 - 10:15
Recent supernovae observations and type/model fitting
Guessoum, Nidhal; Odeh, Mohammad; Abdi, Ilmah; Alshamsi, Shaikha; Akl, Dalya; Alowais, Sultan

E1.6-0026-24 (WITHDRAWN) 10:15 - 10:30
AT2018cow continues to surprise
Piro, Anthony

Coffee Break

Challenges in the interpretation of TeV afterglows
Room: CON-110

E1.6-0027-24 11:00 - 11:20 (solicited)
GRB afterglow studies at TeV energies
Khangulyan, Dmitry

E1.6-0028-24 11:20 - 11:40 (solicited)
Modeling the TeV emission from GRB 221009A
Piran, Tsvi

E1.6-0029-24 11:40 - 12:00 (solicited)
Highlights and prospects of LHAASO
Chen, Songzhan Team: the LHAASO collaboration p. 460

E1.6-0030-24 12:00 - 12:15
Detection of explosive VHE gamma-ray flare from the distant quasar OP313 with the Large-Sized Telescope prototype of the Cherenkov Telescope Array Observatory
Nozaki, Seiya; Morcuende, Daniel; Nievas-Rosillo, Mireia; Otero-Santos, Jorge; Sanchez, David

E1.6-0031-24 12:15 - 12:30
Magnetar emergence in a peculiar GRB 230307A from a compact star merger
Sun, Hui; Yang, Jun; Zhang, Binbin; Xiong, Shaolin; Liu, Yuan; Zhang, Bing; Yuan, Weimin; Jin, Chichuan

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E1.9 Spectral/Timing Properties of AGN: Theory and Observations

Main Scientific Organizer: Papadakis, Iossif
Deputy Organizer: Dewangan, Gulab

Accretion disc and multi-wavelength properties of AGN.

Chair: Garcia, Javier
Room: CON-107

E1.9-0019-24 09:00 - 09:30 (solicited)
The nature of the inner accretion flow in AGN
Davis, Shane

E1.9-0020-24 09:30 - 09:45
Multiwavelength properties of hard X-ray selected AGN in the ART-XC NEP Survey
Chen, Chien-Ting

E1.9-0021-24 09:45 - 10:00
Multiwavelenght properties of intermediate-mass black holes selected via optical variability
Camacho, Ernesto; Bauer, Franz E.; Chilingarian, Igor; Demianenko, Mariia

E1.9-0022-24 10:00 - 10:15
The SRG/eROSITA all-sky survey: Hard X-ray selected Active Galactic Nuclei
Waddell, Sophia

E1.9-0023-24 10:15 - 10:30
Bolometric Corrections from a Large Multi-Wavelength Study of Nearby Unobscured AGN
Gupta, Kriti Kamal

Coffee Break

UV/optical variability of AGN

Chair: Costantini, Elisa
Room: CON-107

E1.9-0024-24 11:00 - 11:30 (solicited)
Regulation of Matter around AGN
Ananna, Tonima Tasnim

E1.9-0025-24 11:30 - 11:45
11 years of AGN variability studies with the VST
de Cicco, Demetra; Paolillo, Maurizio; Petrecca, Vincenzo

E1.9-0026-24 11:45 - 12:00
Characterising the ensemble optical variability of AGN: from current surveys to LSST
Paolillo, Maurizio; Petrecca, Vincenzo; de Cicco, Demetra; Bauer, Franz E.; Papadakis, Iossif

E1.9-0027-24 12:00 - 12:15
First quasars gravitational lenses candidates space-based survey by Gaia
Galluccio, Laurent

E1.9-0028-24 12:15 - 12:30
AGN as standard candles. Luminosity-variability correlations and its applications
la Franca, Fabio; Signorini, Matilde; Ricci, Federica; Bianchi, Stefano; Tortosa, Alessia

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E1.11 Coevolution between High-redshift Quasars and Galaxies in the Era of JWST

Main Scientific Organizer: Inayoshi, Kohei
Deputy Organizer: Silverman, John

Room: CON-108

E1.11-0001-24 09:00 - 09:30 (solicited)
Super-early galaxies seen by JWST
Ferrara, Andrea

E1.11-0002-24 09:30 - 09:45
JWST CEERS & JADES Active Galaxies at z = 4-7 Violate the Local M_BH-M_* Relation at More Than 3 sigma: Implications for Low-Mass Black Holes and Seeding Models
Pacucci, Fabio; Nguyen, Bao; Carniani, Stefano; Maiolino, Roberto; Fan, Xiaohui

E1.11-0003-24 09:45 - 10:00
Physical Pathways for JWST-Observed Supermassive Black Holes in the Early Universe
Jeon, Junehyoung; Bromm, Volker; Liu, Boyuan; Finkelstein, Steven

E1.11-0004-24 10:00 - 10:15
Galaxy Merger as an AGN Trigger In the Simulation and Mock Observation
Jhee, Hannah; Choi, Ena; Somerville, Rachel; Kocevski, Dale; Hirschmann, Michaela; Naab, Thorsten; Narayanan, Desika; P. Ostriker, Jeremiah

E1.11-0005-24 10:15 - 10:30
Pathway to high-z SMBHs: seed formation and growth in the statistical perspective
Li, Wenxiu

Coffee Break

Room: CON-108

E1.11-0006-24 11:00 - 11:30 (solicited)
Formed Too Fast: Massive Galaxies at Cosmic Dawn
Casey, Caitlin Team: COSMOS-Web Team p. 449

E1.11-0007-24 11:30 - 11:45
The Connection Between Supermassive Black Holes and Galaxies at z 3.5 Revealed by JWST
Ho, Luis; Li, Ruancun; Chen, Changhao; Zhuang, Mingyang

E1.11-0008-24 11:45 - 12:00
A large population of luminous, dust-reddened AGN in the early universe? Insights from the COSMOS-Web survey
Akins, Hollis; Casey, Caitlin Team: COSMOS-Web p. 449

E1.11-0009-24 12:00 - 12:15
Exploring the (dust) early Universe with the next generation of JWST/IFU and ALMA programs
Faisst, Andreas

E1.11-0010-24 12:15 - 12:30
Discussion session
Inayoshi, Kohei

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E1.12 Gamma-ray Bursts in the next Decade

Main Scientific Organizer: D'avanzo, Paolo
Deputy Organizer: Bissaldi, Elisabetta

The BOAT / New missions and perspectives for the next decade

Room: CON-202

E1.12-0021-24 09:00 - 09:15
AGILE detection of MeV-GeV emission coexisting during the exceptional GRB 221009A
Foffano, Luca Team: AGILE Collaboration p. 446

E1.12-0022-24 09:15 - 09:30
Multi-wavelength afterglow analysis of the extremely bright GRB 221009A
Tak, Donggeun; Uhm, Z. Lucas; Im, Myungshin; Paek, Gregory

E1.12-0023-24 09:30 - 09:45
A neutron capture explanation for the 10 MeV line in GRB 221009A
Zhu, Jiahuan; Feng, Hua

E1.12-0024-24 09:45 - 10:05 (solicited)
The Transient High-Energy Sky and Early Universe Surveyor (THESEUS)
Amati, Lorenzo; D'avanzo, Paolo Team: Theseus Consortium p. 460

E1.12-0025-24 (WITHDRAWN) 10:05 - 10:25 (solicited)
Moon Burst Energetics All-sky Monitor (MoonBEAM)
Hui, Michelle Team: MoonBEAM team p. 455

Coffee Break

New missions and perspectives for the next decade
Room: CON-202

E1.12-0026-24 11:00 - 11:15
High-z Gamma-Ray Bursts detection by SVOM/ECLAIRs: Impact of instrumental biases on the burst measured properties
Llamas Lanza, Miguel; Godet, Olivier; Arcier, Benjamin; Atteia, Jean-Luc; Yassine, Manal; Bouchet, Laurent

E1.12-0027-24 11:15 - 11:30
GRB-detecting nanosatellites GRBAlpha and VZLUSAT-2
Ripa, Jakub; Pal, Andras; Werner, Norbert; Ohno, Masanori; Meszaros, Laszlo; Dafcikova, Marianna; Munz, Filip; Husarikova, Nikola; Csak, Balazs; Daniel, Vladimir; Dudas, Juraj; Frajt, Marcel; Hanak, Peter; Hudec, Jan; Junas, Milan; Kapus, Jakub; Kasal, Miroslav; Urbanec, Tomas; Koleda, Martin; Laszlo, Robert; Lipovsky, Pavol; Rezenov, Maksim; Smelko, Miroslav; Svoboda, Petr; Galgoczi, Gabor; Takahashi, Hiromitsu; Enoto, Teruaki; Fukazawa, Yasushi; Ichinohe, Yuto; Matake, Hiroto; Mizuno, Tsunefumi; Nakazawa, Kazuhiro; Odaka, Hirokazu; Poon, Helen; Uchida, Nagomi; Uchida, Yuusuke; Vertat, Ivo; Sabol, Martin; Hroch, Filip; Topinka, Martin; Kiss, Laszlo; Frei, Zsolt

E1.12-0028-24 11:30 - 11:45
The Gamma-ray Transients Monitor (GTM) on board Formosat-8B
Chang, Hsiang-Kuang; Lin, Chih-Hsun; Tsao, Che-Chih Team: GTM team p. 451

E1.12-0029-24 11:45 - 12:00
The HERMES/SpIRIT project: Hunting for Gravitational Wave Electromagnetic Counterparts
Sanna, Andrea; Dilillo, Giuseppe; Fiore, Fabrizio; Burderi, Luciano; Trenti, Michele

E1.12-0030-24 12:00 - 12:15
Gamma-Ray Burst Polarimetry with the POLAR and POLAR-2 missions
de Angelis, Nicolas Team: POLAR and POLAR-2 p. 456

E1.12-0031-24 12:15 - 12:30
Chasing after the near-infrared afterglow of gamma-ray bursts with COLIBRI/CAGIRE
Fortin, Francis Team: COLIBRI/CAGIRE team p. 449

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E1.16 High Mass X-ray Binaries: a new View on Accretion and Reprocessing

Main Scientific Organizer: Paul, Biswajit
Deputy Organizer: Chaty, Sylvain

Room: CON-109

E1.16-0001-24 09:00 - 09:15
Blind Source Separation for Decomposing X-ray Pulsar Profiles
Saathoff, Inga; Doroshenko, Victor; Santangelo, Andrea

E1.16-0002-24 09:15 - 09:35
HMXB evolution towards potential gravitational wave source progenitors
Chaty, Sylvain; García, Federico; Simaz-Bunzel, Adolfo; Chassande-Mottin, Eric; Porter, Edward Team: Bin2Grav p. 448

E1.16-0003-24 09:35 - 10:05
Stellar wind diagnostics and X-ray/wind interactions in HMXBs
Krticka, Jiri; Kubat, Jiri; Krtickova, Iva

E1.16-0004-24 10:05 - 10:20
Catalog of the Galactic population of X-ray pulsars in High-mass X-ray binary systems
Kim, Vitaliy; Aimuratov, Yerlan; Izmailova, Ildana

Coffee Break

Room: CON-109

E1.16-0005-24 11:00 - 11:15
Accretion onto magnetic neutron stars. A quantitative explanation of the cyclotron-line – X-ray luminosity anti-correlation in the supercritical regime
Kylafis, Nikolaos

E1.16-0006-24 11:15 - 11:30
A catalogue of high-mass X-ray binaries to unveil their history
Fortin, Francis; García, Federico; Simaz-Bunzel, Adolfo; Chaty, Sylvain

E1.16-0007-24 11:30 - 11:50
Torque in magnetospheric star-disk interaction
Cemeljic, Miljenko

E1.16-0008-24 11:50 - 12:05
A black hole jet bent by stellar wind
Prabu, Steve; Miller-Jones, James; Bahramian, Arash

E1.16-0009-24 12:05 - 12:25
Polarized emission from X-ray pulsars as seen by the IXPE observatory
Tsygankov, Sergey

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E2.1 Energetics and dynamics in the quiet solar atmosphere and beyond

Main Scientific Organizer: Huang, Zhenghua
Deputy Organizer: Madjarska-Theissen, Maria

Energetics and dynamics in the quiet solar atmosphere and beyond - Q5

Chair: Liu, Jiajia
Room: CON-106

E2.1-0018-24 09:00 - 09:30 (solicited)
Thermodynamic Properties of Small-Scale Flares and Associated Mass Ejections
Asai, Ayumi; Kotani, Yuji; Shibata, Kazunari

E2.1-0019-24 09:30 - 09:50 (solicited)
High-Resolution Observations of Plume's Footpoint in Solar Coronal Hole
Cho, Kyungsuk

E2.1-0020-24 09:50 - 10:10 (solicited)
Test particle acceleration in the solar atmosphere
Øyre, Eilif Sommer; Gudiksen, Boris Vilhelm

E2.1-0021-24 10:10 - 10:30 (solicited)
Coronal Loop Model Heated by MHD Waves against Radiative Losses
Shi, Mijie; van Doorsselaere, Tom; Guo, Mingzhe; Karampelas, Konstantinos; Li, Bo; Antolin, Patrick

Coffee Break

Energetics and dynamics in the quiet solar atmosphere and beyond - Q6
Chair: Asai, Ayumi
Room: CON-106

E2.1-0022-24 11:00 - 11:30 (solicited)
Machine Learning Application in Solar Physics of the Quiet Sun
Sainz Dalda, A.

E2.1-0023-24 11:30 - 11:45
Automatic coronal bright points detection algorithm based on deep learning
Mou, Chaozhou

E2.1-0024-24 11:45 - 12:00
Wave turbulence in quiet Sun coronal loops
Morton, Richard; Tajfirouze, Edris; Asgari-Targhi, Mahboubeh; Sharma, Rahul

E2.1-0025-24 12:00 - 12:15
Concurrence of a Kelvin-Helmholtz instability and Kármán vortex street in the Sun's corona
Wei, Hengyuan; Huang, Zhenghua; Long, David; Fu, Hui; Xia, Lidong; Xiong, Ming; Li, Bo

E2.1-0026-24 12:15 - 12:30
Applications of collective magnetohydrodynamic motions in solar flare loops to flare quasi-periodic pulsations
Li, Bo; Shi, Mijie; Guo, Mingzhe; Chen, Shao-Xia

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E2.4 Application of Machine Learning Techniques in Solar and Heliospheric Physics

Main Scientific Organizer: Chifu, Iulia
Deputy Organizer: Gafeira, Ricardo

Chair: Milic, Ivan
Room: CON-201

E2.4-0017-24 09:00 - 09:20 (solicited)
Inversion of Rotational Coronagraphic Images into 3D Electron Density using deep learning method
Jang, Soojeong; Kwon, Ryun Young

E2.4-0018-24 09:20 - 09:40
Developing Advanced Non-linear Force-Free Fields Construction Methods Via 3D Convolutional Networks and Physics-Informed Techniques
Chen, Guoyin; Guo, Yang; Hao, Qi; Ding, Mingde

E2.4-0019-24 (WITHDRAWN) 09:40 - 10:00
Citizen science and machine learning to identify and characterize coronal jets
Musset, Sophie; Jol, Paloma; Sankar, Ramana; Joliat, Adrien; Charlet, Julie; Collado Capell, Carlos; Clemmer, Lestat; Lasko, Kekoa; Glesener, Lindsay Team: Solar Jet Hunter p. 458

E2.4-0020-24 10:00 - 10:20
Predicting the CME Arrival Time via Fusion of Physical Parameters and Image Features
Zhao, Dong

Coffee Break

Chair: Guastavino, Sabrina
Room: CON-201

E2.4-0021-24 11:00 - 11:20 (solicited)
Machine Learning and Solar Winds Models, a Story of Surrogation
S. Barros, Filipa; J. G. Lima, J.; F. Pinto, Rui; Restivo, André

E2.4-0022-24 11:20 - 11:40
Forecasts of 3-day Solar Wind Speeds and 6-hour IMF Bz by Deep Learning
Son, Jihyeon; Sung, Suk-Kyung; Moon, Yong-jae; Lee, Harim; Jeong, Hyun-Jin

E2.4-0023-24 11:40 - 12:00
Enhancing STEREO-HI beacon data with machine learning for efficient CME forecasting
Le Louëdec, Justin; Bauer, Maike; Amerstorfer, Tanja; Davies, Jackie; Davies, Emma; Weiler, Eva

E2.4-0024-24 12:00 - 12:20
System level Babcock-Leighton flux transport model-data comparisons
Wing, Simon; Johnson, Jay; Dikpati, Mausumi

Mon, Jul 15, 2024

E2.5 Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind

Main Scientific Organizer: van Doorsselaere, Tom
Deputy Organizer: Li, Bo

Chair: Li, Bo
Room: CON-203

E2.5-0021-24 09:00 - 09:30 (solicited)
Waves in the Solar Wind
He, Jiansen; Hou, Chuanpeng; Yang, Liping; Verscharen, Daniel

E2.5-0022-24 09:30 - 09:45
Coronal density fluctuations observed by Metis, the Solar Orbiter coronagraph
Andretta, Vincenzo; Abbo, Lucia; Naletto, Giampiero; Russano, Giuliana; Spadaro, Daniele; Stangalini, Marco; Straus, Thomas; Susino, Roberto; Uslenghi, Michela; Ventura, Rita

E2.5-0023-24 09:45 - 10:00
Observational study of intermittent solar jets: p-mode modulation
Schmieder, Brigitte; Ruan, Guiping; Guo, Jinhan; Chen, Yao; Cao, Wenda; Cai, Qiuzhuo; Zheng, Chenxi; Su, Jiangtao

E2.5-0024-24 10:00 - 10:15
Investigation of simultaneous longitudinal and transverse oscillations in polar plumes using Solar Orbiter
Baweja, Upasna; Pant, Vaibhav; Sayamanthula, Krishna Prasad

E2.5-0025-24 10:15 - 10:30
Mapping the magnetic field in the global corona through observations of transverse waves
Tian, Hui

Coffee Break

Chair: Schmieder, Brigitte
Room: CON-203

E2.5-0026-24 11:00 - 11:30 (solicited)
Numerical models of waves and turbulence in the solar wind: overview of recent results
Shoda, Munehito

E2.5-0027-24 11:30 - 11:45
Analytic model and MHD simulations of three-dimensional magnetic switchbacks
Shi, Chen; Velli, Marco; Toth, Gabor; Zhang, Kun; Tenerani, Anna; Huang, Zesen; Sioulas, Nikos; Van der Holst, Bart

E2.5-0028-24 11:45 - 12:00
Alfvénic turbulence and switchbacks: transmission through the chromosphere, direct coronal generation, or both?
Velli, Marco; Huang, Zesen; Sioulas, Nikos; Shi, Chen; Panasenco, Olga; Bale, Stuart

E2.5-0029-24 12:00 - 12:15
Ion acoustic waves driven by a reactive ion beam instability
Cairns, Iver; Malaspina, David; Ergun, Robert

E2.5-0030-24 12:15 - 12:30
How will interplanetarymagnetic field topology modify solar wind kinetics?
Lin, Rong; Lapenta, Giovanni; He, Jiansen

Mon, Jul 15, 2024

F0.1 Joint Commission F Symposium

Main Scientific Organizer: Hei, Tom K.

Room: EC1-211

F0.1-0001-24 09:00 - 09:20
The Role Life Sciences in Space Research on Global Health
Hei, Tom K.

F0.1-0002-24 09:20 - 09:40
Space radiation and spaceflight induce oxidative damage to blood-brain barrier integrity
Mao, Xiao Wen

F0.1-0003-24 09:40 - 10:10
The exploration of habitable worlds in the solar system in a safe and sustainable way
Coustenis, Athena; Doran, Peter; Hedman, Niklas

F0.1-0004-24 10:10 - 10:30
Discussion I
Hei, Tom K.

Coffee Break

Room: EC1-211

F0.1-0005-24 11:00 - 11:20
Radiation measurements in space with special focus on the MARE experiment during the NASA Artemis I mission
Berger, Thomas

F0.1-0006-24 11:20 - 11:40
Anti-muscle atrophic protein food source in space: Development of a recirculatory rearing system for soybeans and crickets
Nikawa, Takeshi; Miyawaki, Katsuyuki; Takahashi, Akira; Watanabe, Takahito; Mito, Taro

F0.1-0007-24 11:40 - 12:00
Drug Development of Countermeasures for Long-duration Space Flights
Chang, Polly

F0.1-0008-24 12:00 - 12:20
Discussion II
Hei, Tom K.

Mon, Jul 15, 2024

G0.2 Drop Tower Days

Main Scientific Organizer: Avila, Marc
Deputy Organizer: Könemann, Thorben

Drop Towers and their Technologies

Chair: Könemann, Thorben
Room: EC1-317

G0.2-0001-24 09:00 - 09:15
Construction and stabilization testing of a 100 m drop tower in Korea
Yu, Isang

G0.2-0002-24 09:15 - 09:30

Multiple Microgravity level Adjustment range from 10-3g to 10-5g for Beijing Drop Tower
Kang, Qi; Hu, Liang; Yang, Chao; Duan, Li; Zhang, Wei; Chen, Shuyang; Zhao, Yifan

G0.2-0003-24 09:30 - 09:45

Introduction of an Innovative Microgravity Experiment Facility with Electromagnetic Launch
Wang, Zhe; Zhang, Jianquan; Dong, Wenbo; Zhang, Yongkang

G0.2-0004-24 09:45 - 10:00

Towards a ground-based partial-gravity platform and big scientific data with the GraviTower Bremen Pro
Cornelius, Merle; von Kampen, Peter; Avila, Marc; Könemann, Thorben

G0.2-0005-24 10:00 - 10:15

Advancements in Partial Gravity Research: Enhancing Experimentation Capabilities at GraviTower Bremen Pro
Becker, Anna; Bischoff, Dieter; Kaczmarczik, Ulrich; Avila, Marc

G0.2-0006-24 10:15 - 10:30

AUSTER – Autonomous Operation of Experiments on Microgravity Platforms
Bernauer, Marcel; Avila, Marc

Coffee Break

Materials Science, Combustion, and Fundamental Physics

Chair: Cornelius, Merle
Room: EC1-317

G0.2-0007-24 11:00 - 11:15

Granular Rheology in Lunar Gravity
Kollmer, Jonathan

G0.2-0008-24 11:15 - 11:30

Drop towers and student research projects – case study of project Solid Lubricants in microgravity from Gdańsk
Krawczuk, Szymon; Lubinski, Jacek; Dąbrowski, Adam; Cieślak, Daniel

G0.2-0009-24 11:30 - 11:45

Measurement of metal foam expansion in a drop tower
Menaria, Neelabh; S., Sankaran; Subbiah, Sathyan; Arunachalam, Adhithya Plato Sidharth; M, Venkateshwaran; P, Niketh

G0.2-0010-24 11:45 - 12:00

Smoke characterization from different spacecraft materials in normal gravity and microgravity environment
Muruganandam, T.m.; Kumar, Vipin; Kumar, Amit; Adhikari, Lelin; Gupta, Akash; Sharma, Payal

G0.2-0011-24 12:00 - 12:15

Flame Investigations at Limit Conditions under Microgravity
Schwenzer, Christian; Glaznev, Roman; Hesse, Raik; Pitsch, Heinz; Beeckmann, Joachim

G0.2-0012-24 12:15 - 12:30

Cold atom interferometry and quantum gases at the drop tower Bremen
Herrmann, Sven; Pahl, Julia; Bhadane, Anurag; Leopoldt, Dorthe; Wenzlawski, André; Abend, Sven; Rasel, Ernst Maria

Mon, Jul 15, 2024

PE.2 Current Trends, Initiatives And Research In Education And Outreach For Space Sciences

Main Scientific Organizer: Rojas, Gustavo
Deputy Organizer: Benitez Herrera, Sandra

Room: EC1-218

PE.2-0013-24 09:00 - 09:30

Where did the stars go?
Rozi, Ekaterini Maria Team: e twinning Where did the stars go? p. 450

PE.2-0014-24 09:30 - 10:00

The Impact of Online Astronomy Education on Developing New Generation of Space Scientists from Underprivileged Countries.
Mirsoltani, Shahrzad

PE.2-0015-24 10:00 - 10:30

In-Person & Simulated Aerospace Education as a STEM Accelerator
Portas-Levy, Daniel; Simmons, Kevin

Coffee Break

Room: EC1-218

PE.2-0016-24 11:00 - 11:30

Inspiring students and teachers across Europe with the CESAR program
Benitez Herrera, Sandra

Mon, Jul 15, 2024

PEX.1 Integrating Environmental Ethics into Planetary Exploration and Use

Main Scientific Organizer: Smith, Heather
Deputy Organizer: Mckay, Chris

Room: EC1-214

PEX.1-0001-24 09:00 - 09:15 (solicited)

The COSPAR Panel on Planetary Protection: activities for a safe and sustainable space exploration
Coustenis, Athena Team: The COSPAR Panel on Planetary Protection p. 459

PEX.1-0002-24 09:15 - 09:30 (solicited)

Space Exploration: keeping the momentum
Dautriat, Eric; Blanc, Michel; Dechezelles, Jean-Jacques; Dordain, Jean-Jacques; Lebreton, Jean-Pierre; Perino, Maria Antonietta; de Winter, Bram

PEX.1-0003-24 09:30 - 09:45 (solicited)

The Problem of Space Debris and its Ethical Ramifications
Frueh, Carolin

PEX.1-0004-24 09:45 - 10:00 (solicited)

KIGAM's new direction by establishing the Space Resource Exploration and Utilization Center
Kim, Kyeong

PEX.1-0005-24 10:00 - 10:15 (solicited)

Ethical considerations for analogue fieldwork
Marino, Alessandra; Olsson-Francis, Karen; Bhagwat, Shonil; Balcha, Ermias; Franchi, Fulvio; Cavalazzi, Barbara; Lebogang, Lesedi; Lynch, Kennda; Azua-Bustos, Armando

PEX.1-0006-24 10:15 - 10:30 (solicited)

A Comparative Examination of Exploration, Use and Management Policies on Planetary Surfaces: Identifying Principles for Filling Gaps and Planning Ethical Paths Forward for Future Space Endeavors
Race, Margaret

Coffee Break

Room: EC1-214

PEX.1-0007-24 11:00 - 11:15 (solicited)

Ceres Robotics Landers and Robotics in support of Lunar Exploration and Science
Sims, Michael

PEX.1-0008-24 11:15 - 11:30

Applying Earth based Land-Use, and Management practices to planetary exploration
Smith, Heather

PEX.1-0009-24 11:30 - 11:45 (solicited)

Fly me (sustainably) to the Moon
Worms, Jean-Claude

PEX.1-0010-24 11:45 - 12:00 (solicited)

Lunar Explora,on and Sustainability: Challenges, Opportuni,es, and Orbital Management Strategies
Lizy-Destrez, Stéphanie; Guardabasso, Paolo; Davis, Diane; Joffre, Eric

PEX.1-0011-24 12:00 - 12:15 (solicited)

Airbus Views On Sustainable Exploration
Boithias, Helene; Duerr, Wolfgang; Schrage, Thomas

Mon, Jul 15, 2024

PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation

Main Scientific Organizer: Fuke, Hideyuki
Deputy Organizer: Dubourg, Vincent

Space Engineering, Astronomy

Room: CON-105

PSB.1-0015-24 09:00 - 09:20

High Altitude Flight Demonstration Test Report on Mars Airplane Balloon Experiment-2 (MABE2)
Nagai, Hiroki; Oyama, Akira; Fujita, Koji; Kanazaki, Masahiro; Takano, Atsushi; Abe, Akio; Mitsutake, Katsushi; Tokutake, Hiroshi; Ikami, Tsubasa

PSB.1-0016-24 09:20 - 09:50

FREE FLIGHT TEST OF A HAYABUSA-TYPE SAMPLE RETURN CAPSULE USING A SCIENTIFIC BALLOON IN JAXA'S AUSTRALIAN BALLOON CAMPAIGN IN 2023
Ono, Ryosuke Team: SRC team p. 458

PSB.1-0017-24 09:50 - 10:10

SUNRISE III balloon-borne solar telescope and its near-IR spectropolarimeter SCIP
Katsukawa, Yukio; Solanki, Sami; Korpi-Lagg, Andreas; Bernasconi, Pietro; Del Toro Iniesta, Jose Carlos; Berkefeld, Thomas; Kubo, Masahito; Kawabata, Yusuke; Oba, Takayoshi; Hara, Hirohisa; Shimizu, Toshifumi; Uraguchi, Fumihiro; Tsuzuki, Toshihiro; Matsumoto, Takuma; Ishikawa, Ryohtaro; Balaguer Jimenez, Maria; Orozco Suárez, David; Piqueras, Javier; Gandorfer, Achim; Feller, Alex

PSB.1-0018-24 (WITHDRAWN) 10:10 - 10:30

The SuperHERO Hard X-Ray Balloon-Borne Telescope Proposed Mission Concept
Gaskin, Jessica; Thomas, Nicholas

Coffee Break

Astronomy, Astrophysics

Room: CON-105

PSB.1-0019-24 11:00 - 11:20

MeV gamma-ray observations using an electron-tracking Compton camera loaded on long duration balloons
Takada, Atsushi; Abe, Mitsuru; Tsukamoto, Hirotake; Yoshioka, Ryo; Oka, Tomohiko; Nakamori, Takeshi; Iiyama, Haruki; Sawano, Tatsuya; Mizumura, Yoshitaka; Hamaguchi, Kenji; Tanimori, Toru; Mori, Masaki; Kurosawa, Shunsuke; Kushida, Junko; Miuchi, Kentaro; Ikeda, Tomonori; Takemura, Taito; Yoshikawa, Kei; Nakamura, Yuta

PSB.1-0020-24 11:20 - 11:40

GRAINE: Balloon-borne emulsion telescope project for precisely sub-GeV/GeV cosmic gamma ray observation
Nakamura, Yuya Team: GRAINE collaboration p. 451

PSB.1-0021-24 11:40 - 12:00

The GUSTO Gondola Design and Flight Performance
Bernasconi, Pietro; Arnold, Steven; Walker, Christopher Team: GUSTO Gondola JHU/APL Team p. 451

PSB.1-0022-24 12:00 - 12:20

BISOU: A FUTURE BALLOON TO STUDY CMB SPECTRAL DISTORTIONS
Maffei, Bruno; Aghanim, Nabila; DeBernardis, Paolo; Kogut, Alan; Savini, Giorgio; Douspis, Marian Team: BISOU Collaboration p. 448

Mon, Jul 15, 2024

PSW.2 Space Weather at Planetary Bodies in the Solar System

Main Scientific Organizer: Yao, Zhonghua
Deputy Organizer: Jun, Insoo

Chair: Jun, Insoo
Room: EC1-314

PSW.2-0001-24 09:00 - 09:15
A Solar Cycle of Radiation Measurements on the Surface of Mars with RAD on the Mars Science Laboratory
Hassler, Donald M.; Zeitlin, Cary; Ehresmann, Bent; Wimmer-Schweingruber, Robert

PSW.2-0002-24 09:15 - 09:30
ESCAPADE: a twin spacecraft mission to unravel cause and effect in space weather impacts at Mars
Lillis, Robert; Curtis, David; Hara, Takuya; Taylor, Ellen; Curry, Shannon; Parker, Jeffrey; Xu, Shaosui; Luhmann, Janet G.; Barjatya, Aroh; Livi, Roberto; Whittlesey, Phyllis; Espley, Jared; Gruesbeck, Jacob; Sarantos, Menelaos; Harada, Yuki; Modolo, Ronan; Ma, Yingjuan; Hanley, Gwen; Larson, Davin

PSW.2-0003-24 09:30 - 09:45 (solicited)
Tianwen-1 MINPA in-flight operation and first science results
Li, Wenya; Kong, Linggao; Zhang, Aibing; Wang, Chi

PSW.2-0004-24 09:45 - 10:00 (solicited)
Space Weather Modeling at Mars, Venus, and Other Bodies
Dong, Chuanfei

PSW.2-0005-24 10:00 - 10:15 (solicited)
New insights into the Uranian radiation belts and solar wind coupling
Cohen, Ian; Turner, Drew; Kollmann, Peter; Clark, George; Caggiano, Joe; Regoli, Leonardo; Nordheim, Tom

PSW.2-0006-24 10:15 - 10:30
Auroral Injections and the Magnetospheric Processes at Jupiter
Yao, Zhonghua

Mon, Jul 15, 2024

PSW.6 Improving Predictive Capabilities of Radiation Environment in Support of Human Exploration and Robotic Missions

Main Scientific Organizer: Whitman, Kathryn
Deputy Organizer: Jun, Insoo

Room: EC1-314

PSW.6-0001-24 11:00 - 11:15
Exploring Potential Predictors of Solar Energetic Particles and Solar Flares Using Statistical Causal Discovery
Kato, Yuta; Kusano, Kanya; Mitsuda, Chihiro; Ishihara, Yasuhide

PSW.6-0002-24 11:15 - 11:30 (solicited)
Extension of the NASA Badhwar-O'Neill model's predictive capabilities beyond 1 AU
Corti, Claudio; Whitman, Kathryn; Slaba, Tony; Minow, Joseph; Jun, Insoo

PSW.6-0003-24 11:30 - 11:45 (solicited)
The Moon to Mars Space Weather Analysis Office: Activities and Support of SEP Modeling Capabilities
Anastopulos, Madeleine; Collado-Vega, Yaireska (Yari) Team: Moon to Mars Space Weather Analysis Office p. 455

PSW.6-0004-24 11:45 - 12:00 (solicited)
Characterization of High Energy Proton Events at Mars During SEP Activity and Quiescent Periods
Lee, Christina O.; Dunn, Patrick; Ehresmann, Bent

PSW.6-0005-24 12:00 - 12:15 (solicited)
New REleASE Products: Combining the Relativistic Electron Alert System for Exploration with other early indicators of solar energetic particle events
Posner, Arik; Laurenza, Monica; Malandraki, Olga; Karavolos, Michalis; Tziotziou, Kostas; Smanis, Fanis; Heber, Bernd; Dröge, Henrik; Kollhoff, Alexander; Richardson, Ian G.; Zhao, Lulu

PSW.6-0006-24 12:15 - 12:30
Continuous long-term mapping of high-energy particle populations in MMS mission's highly elliptical orbit
Sushkova, Julia; Herceg, Matija; Denver, Troelz; Benn, Mathias; Joergensen, Peter S.; Hoyos Ortega, Berta; Strømme, Anja; Shulman, Seth; Jørgensen, John

Mon, Jul 15, 2024

PSW.9 International Space Weather Missions and Coordination: Current and Planned Missions

Main Scientific Organizer: Luntama, Juha-Pekka
Deputy Organizer: Monham, Andrew

Room: EC1-315

PSW.9-0001-24 09:00 - 09:15
Implementation Status of Vision for WIGOS 2040 Based on WMO Observing System Capability Analysis and Review Tool for Space-Based Capabilities
Andries, Jesse; Pohjola, Heikki; Donoho, Natalia

PSW.9-0002-24 09:15 - 09:30
NOAA's Space Weather Observations Providing Operational Space Weather Capability
Talaat, Elsayed

PSW.9-0003-24 09:30 - 09:45
Heliophysics Division: Space Weather Program Missions and Observations
Westlake, Joe

PSW.9-0004-24 09:45 - 10:00
Introduction of China's Space Weather Missions
Luo, Bingxian

PSW.9-0005-24 10:00 - 10:15

Present and Future Endeavors in Space Weather Research and Missions: Thailand's Perspective
Channumsin, Sittiporn; Bumrungkit, Acharaporn; Kaewthongrach, Rungnapa; Panup, Wanida; Sutthana, Jaruwan; Puttasuwa, Keerati; Saingyen, Phasawee

PSW.9-0006-24 10:15 - 10:30

The 'Best of both Worlds': How 'Hybrid' Mission Architectures Can Fuel Scientific Discovery and Empower Actionable Space Weather Forecasting
Vourlidas, Angelos; Turner, Drew; Cohen, Ian; Berger, Thomas; Cohen, Christina

Coffee Break

Room: EC1-315

PSW.9-0007-24 11:00 - 11:15

SpaceAble's proposal for the commercialisation of space weather services
Beltramo-Martin, Olivier; Cantegreil, Julien; Kaab, Mohamed; Windels, Pascal

PSW.9-0008-24 11:15 - 11:30

HEliospheric pioNeer for sOlar and interplanetary threats defeNce
Laurenza, Monica Team: HENON Team p. 451

PSW.9-0009-24 11:30 - 11:45

Space Weather Monitoring with Industrialized Nanosatellite Platforms
Fakhfakh, Mourad

PSW.9-0010-24 11:45 - 12:00

Development of Radiation Monitors for Space weather (RMS) for next Japanese geostationary meteorological satellite Himawari-10
Sakaguchi, Kaori; Saito, Shinji; Otsuji, Kenichi; Namekawa, Taku; Park, Inchun; Nagatsuma, Tsutomu; Kubo, Yuki; Tsugawa, Takuya; Ishii, Mamoru; Suzuki, Ryutaro; Kadowaki, Naoto; Mitani, Takefumi; Asamura, Kazushi

PSW.9-0011-24 12:00 - 12:15

DMSP SSUSI and NASA/TIMED GUVI: Charting the path for ATHENA, a joint US/RoK mission
Paxton, Larry; Kil, Hyosub; Cantrall, Clayton; Schaefer, Robert; Zhang, Yongliang; Kwak, Young-Sil; Lee, Woo Kyoung Team: SSUSI and GUVI p. 458

Mon, Jul 15, 2024

FP.1 Pioneering the Future of Space Industry and Research

Room: Auditorium

FP.1-0001-24 14:00 - 15:00

Pioneering the Future of Space Industry & Research
Park, Jong Uk

Tue, Jul 16, 2024

A0.1 What Are the Remaining Scientific Challenges above Equatorial Regions? How Small Satellites Could Fill the Knowledge Gap

Main Scientific Organizer: Lansard, Erick
Deputy Organizer: Benveniste, Jérôme

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

A0.1-0017-24 (WITHDRAWN)

Small-satellite capabilities at IIST, past mission, experience gained and future missions
Hari, Priyadarshnam Team: SSPACE p. 458

TWT-002 A0.1-0018-24

Evaluation of ERA5 datasets on atmospheric convection with Radiosonde observation over east coast of India.
Ojha, Piyush; Kumar, Krishan

TWT-003 A0.1-0019-24

Seasonal relationship between WWLLN lightning, ERA5 CAPE, and CP over north-west India
Tyagi, Swati; Srivastava, Arun Kumar

A0.1-0020-24 (WITHDRAWN)

Equatorial Atmosphere-Ionosphere Coupling : Addressing Important Gap Areas Through Experiments on Small Satellites
Pant, Tarun Kumar

Tue, Jul 16, 2024

A0.2 Land-Ocean-Atmosphere interactions

Main Scientific Organizer: Fournier, Severine
Deputy Organizer: Benveniste, Jérôme

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-004 A0.2-0020-24

SAR, SARin, RDSAR and FF-SAR Altimetry Processing on Demand for Cryosat-2, Sentinel-3 and Sentinel-6 at ESA's Altimetry Virtual Lab
Restano, Marco; Benveniste, Jérôme; Dinardo, Salvatore; Buchhaupt, Christopher; Scagliola, Michele; Passaro, Marcello; Fenoglio, Luciana; Ambrózio, Américo; Orru, Carla

TWT-005 A0.2-0021-24

Estimation of chlorophyll a concentration using Landat-8/OLI and Landsat-9/OLI-2 data in Hiroshima Bay
Oguro, Yoshinari; Konishi, Tomohisa; Ito, Seiji

TWT-006 A0.2-0022-24

An analysis of the Tropical Cyclones and Atlantic Hurricanes during 1979 to 2018 with the variation of Sunspot number and the influence of solar flux F10.7 and other solar activities
Banerjee, Dhruba

Tue, Jul 16, 2024

A0.4 Earth observations for Disaster Mitigation

Main Scientific Organizer: Vannan, Suresh
Deputy Organizer: Kasai, Yasuko

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-007 A0.4-0018-24

Estimation of Water Resources over South Korea Using GPM, SWOT, Sentinel-1 Satellite Systems
Lee, Seongjun; Kim, Hyunglok

TWT-008 A0.4-0019-24

Measuring landslides around Ravangala Sikkim, India and establishing contextual relationship with its causative factors
Singh, Saurabh; Raju, Ashwani

TWT-009 A0.4-0020-24

Subsidence in Eastern Gangatic plain region: A qualitative study on correlation parameters.
Kannojiya, Praveen; Raju, Ashwani

TWT-010 A0.4-0021-24

Projection of thermal bioclimate conditions over West Bengal, India in response to global warming based on climate model
Bal, Sourabh; Kirchner, Ingo

TWT-011 A0.4-0022-24

Multi-Satellite Application for Marine Disaster Management around the Korean Peninsula
Kim, Taeho

TWT-012 A0.4-0023-24

Generation of Typical Meteorological Years for Saudi Arabia for Solar Energy Applications (GenTMY-SA)
Farahat, Ashraf; D. Kambezidis, Harry

TWT-013 A0.4-0024-24

Earth Observation and Artificial Intelligence: Ethical Considerations for Practitioners and Policy Makers
Mao, Yiwei

TWT-014 A0.4-0025-24

Developing Spatially and Temporally Continuous Error Maps for Satellite-Based Soil Moisture Data Using Deep Learning Approaches to Enhance Numerical Weather Prediction
Kim, Subin; Kim, Hyunglok

TWT-015 A0.4-0026-24

A Comparison of Sentinel-1 and ALOS-2 to Study the Relationship between Coherence and Building Damage Rates in the Kumamoto Earthquake
Nonaka, Takashi; Asaka, Tomohito

A0.4-0027-24 (WITHDRAWN)

The development and future of China Remote Sensing Satellite Ground Station
Tian, Miaomiao; Huang, Peng; Wei, Hongwei

TWT-016 A0.4-0028-24

Using Nighttime Lights Data to Assess the Resumption of Religious and Socioeconomic Activities Post-COVID-19
Alahmadi, Mohammed

TWT-017 A0.4-0029-24

Assessing the Contribution of Hydrological Factors for Groundwater Dynamics in East Asia using Reanalysis and Satellite Observation with Explainable Machine Learning Methods
Park, Kunhee; Kim, Hyunglok

TWT-018 A0.4-0030-24

The Effective Monitoring System on Satellite Image Distribution
Lee, Myung-Jun; Jeon, Gap-Ho; Lee, Myeong-Shin

Tue, Jul 16, 2024

A0.6 The Connections between Earth's Lower and Upper Atmosphere

Main Scientific Organizer: Kahn, Ralph
Deputy Organizer: Yau, Andrew W.

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-020 A0.6-0007-24
Second variant of the construction of the space geodetic network of Mexico supported by a VLBI "Sierra Negra, Pue, Mex - Mount Lemon AZ, USA"
Mendoza-Araiza, Daniel

TWT-021 A0.6-0008-24
China's Space Environment Ground-based Monitoring System - the Chinese Meridian Project (CMP)
Xu, Jiyao

Tue, Jul 16, 2024

A1.1 Space-based and sub-orbital observations of atmospheric physics and chemistry: Critical Information on the Health of our Planet

Main Scientific Organizer: Kasai, Yasuko
Deputy Organizer: Walker, Kaley

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-022 A1.1-0025-24
First O3 observations from GOSAT-2: the retrieval of O3 profile using thermal-IR band of TANSO-FTS-2 over Kanto region
Li, Arthur Ho Wang; Imasu, Ryoichi

TWT-023 A1.1-0026-24
Simulation of GNSS LEO satellites constellation for 3D water vapor monitoring
Rohm, Witold; Cegła, Adam; Makuch, Sebastian; Sośnica, Krzysztof; Hordyniec, Pawel; Moeller, Gregor; Adavi, Zohreh; Hanna, Natalia

TWT-024 A1.1-0027-24
Methane emissions in the Metropolitan Region of São Paulo: a study based on satellite data.
Da Silva Andrade, Izabel; Pelligrinetti Mendes, Alex Carlos; Andrade, Maria de Fátima; Varon, Daniel J.; Landulfo, Eduardo

A1.1-0028-24 (WITHDRAWN)
Shortwave Flux Retrievals from Himawari-8 AHI observations
Kim, Hye-Yun; Laszlo, Istvan; Liu, Hongqing

Tue, Jul 16, 2024

A2.1 Science and Applications Enabled by Satellite Missions for Global Ocean, Inland Seas, and Cryosphere

Main Scientific Organizer: Vignudelli, Stefano
Deputy Organizer: Fournier, Severine

Progress in development and exploitation of satellite radar altimetry over ocean

Chair: Vignudelli, Stefano
Room: EC1-316

A2.1-0011-24 09:00 - 09:30 (solicited)
Integration of sea level measurement systems in a regional perspective of sea level rise
de Biasio, Francesco; Vignudelli, Stefano

A2.1-0012-24 09:30 - 09:45
Altimeter Methods in Satellite Geodesy
Shum, C K; Jia, Yuanyuan; Wang, Shengdao; Xiao, Yixin; Lee, Chi-Ming; Akyilmaz, Orhan; Uz, Metehan

A2.1-0013-24 09:45 - 10:00
Enhancing the scientific quality of Sentinel-3 topography mission with GPD+ Wet Tropospheric Corrections
Fernandes, Joana; Vieira, Telmo; Lázaro, Clara; Vasconcellos, Bernard; Aguiar, Pedro

A2.1-0014-24 10:00 - 10:15
Assessment of Sentinel-6 MF SAR mode and reprocessed Jason-3 LRM sea level measurements over global coastal oceans
Peng, Fukai; Deng, Xiaoli; Shen, Yunzhong

A2.1-0015-24 10:15 - 10:30
Preliminary Results of the Sentinel-6A Altimeter Sea Surface Height Calibration Using a Subsurface Buoy Offshore China
Xu, Xi-Yu

Coffee Break

Progress in development and exploitation of satellite SAR

Chair: Vignudelli, Stefano
Room: EC1-316

A2.1-0016-24 11:00 - 11:15

OBSERVATION OF INTERNAL WAVES OVER THE BAY OF BENGAL USING ALOS PALSAR SAR IMAGERIES
Acharyulu, Psn; Vignudelli, Stefano; R, Harikumar; Borra, Siviah; T, V Uday Bhaskar; Siva Srinivas, Kolukula; B, Ajay Kumar; M, Nagaraj Kumar; Joseph, Sudheer; Tmnair, Bala Krishanan

A2.1-0017-24 11:15 - 11:30

Synthetic Aperture Radar (SAR) Imagery for Shoreline Delineation over a Complicated Coastal Environment in Malaysia
Zulkifle, Nurul Ain Najwa; Hazrina Idris, Nurul

A2.1-0018-24 11:30 - 11:45

SAR-based Machine Learning-Driven Debris-Covered Glacier Mapping of the Bhaga Basin, Western Himalayas, India.
Pradhan, Ipshita; Mahanta, Kirti Kumar; Shukla, Dericks Praise

A2.1-0019-24 11:45 - 12:00

Statistical analyses of ocean eddies in the Lombok Strait and adjacent waters based on Synthetic Aperture Radar imagery
Karang, I Wayan Gede Astawa; Pratama, Rinaldy Terra; Osawa, Takahiro

A2.1-0020-24 12:00 - 12:15

Detection And Simulation Of The Potential Of Oil Spill In Bali Strait Indonesia
Putu Hadi Wiguna, Pande; Osawa, Takahiro; Setiya Wati, Kadek

A2.1-0021-24 12:15 - 12:30

Observing Sediment Transport Dynamics by Satellite Altimetry and Remote Sensing Imagery
Chen, Zih-Syun; Tseng, Kuo-Hsin

Lunch Break

Regional and coastal oceanography using space measurements

Chair: Shum, C K
Room: EC1-316

A2.1-0022-24 15:00 - 15:30 (solicited)

Ocean Mass Variations: Observation, Estimation and Validation
Seo, Ki-Weon; Jeon, Taehwan; Kim, Jae-Seung; Chen, Jianli; Wilson, Clark

A2.1-0023-24 15:30 - 15:45 (solicited)

Seasonal and interannual variations of coastal currents off Canada's west coast: satellite altimetry and ocean modelling
Han, Guoqi

A2.1-0024-24 15:45 - 16:00

Daily monitoring of the Kuroshio meanders over the Izu Ridge using GNSS observations on a ferryboat
Ichikawa, Kaoru Team: Kyushu University RIAM technicians p. 453

A2.1-0025-24 16:00 - 16:15

Detecting Regional Deep Ocean Changes through Sea Level Budget Analyses during the Argo Era
Liang, Xinfeng; Zhang, Yang; Chambers, Don; Huang, Minghai

A2.1-0026-24 16:15 - 16:30

Bathymetry from new generation satellite sensors – Case studies in Australia
Deng, Xiaoli; Andersen, Ole Baltazar; Coleman, Richard; Salagegheh, Farshad; Hallström, Elisabet; Zhou, Mao

Coffee Break

Progress in development and exploitation of satellite observation over ocean and land

Chair: Vignudelli, Stefano
Room: EC1-316

A2.1-0027-24 17:00 - 17:15

Evaluation of Coastal GNSS-IR Altimetry for the Improvement of the Vertical Datum in Taiwan
Lee, Chi-Ming; Kuo, Chung-Yen; Lan, Wen-Hau; Chen, He-Chin; Shum, C K; Bevis, Michael

A2.1-0028-24 17:15 - 17:30

Re-tracked Coastal Sea Levels from Jason-2 Satellite Altimeter in Indonesian Seas
Sinurat, Maya Eria; Nababan, Bisman; Lumban Gaol, Jonson; Manik, Henry Munandar; Hazrina Idris, Nurul; Vignudelli, Stefano

A2.1-0029-24 17:30 - 17:45

Changes of Net Community Production in the Western Arctic Ocean Uncovered by Machine-Learning-based Mapping
Li, Yun; Zhou, Tianyu; Ouyang, Zhangxian; Cai, Wei-Jun

A2.1-0030-24 17:45 - 18:00

Evolution of Space-borne MODIS Aerosol Optical Depth Measurements: Past, Present, and Future Perspectives
Guleria, Raj; Guleria, Shaleen

A2.1-0031-24 (WITHDRAWN) 18:00 - 18:15

Debris thickness mapping of Chhota Shigri glacier in Indian Himalayas using remote sensing
Mohan, Neetu; Tiwari, Reet Kamal; Shukla, Dericks Praise

A2.1-0032-24 18:15 - 18:30

Discussion
Vignudelli, Stefano

Tue, Jul 16, 2024

A2.1 Science and Applications Enabled by Satellite Missions for Global Ocean, Inland Seas, and Cryosphere

Main Scientific Organizer: Vignudelli, Stefano
Deputy Organizer: Fournier, Severine

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-026 A2.1-0033-24
Analysis of the oceanic interaction in the El Niño monitoring areas on the basis of satellite data
Lee, Seongsuk; Yi, Yu

A2.1-0034-24 (WITHDRAWN)
Automated Generation of Inland Water Elevation Changes from Satellite Radar Altimetry
Lee, Hyongki; Maslennikova, Natalya; Rostami, Amirhossein; Chang, Chi-Hung; Milillo, Pietro

TWT-027 A2.1-0035-24
PREDICTIONS OF THE ONSET OF MINI ICE AGE IN THE 25TH SOLAR CYCLE
Kumar, Rajiv

A2.1-0036-24 (WITHDRAWN)
TRITON satellite mission for ocean surface wind speed observation
Yeh, Wen-Hao; Tsai, Yung-Fu; Lin, Chen-Tsung

A2.1-0037-24 (WITHDRAWN)
The potential of the Orbiting Carbon Observatory-2 column CO2 measurements to constrain air-sea CO2 fluxes
Yun, Jeongmin; Liu, Junjie; Bowman, Kevin; Resplandy, Laure

Tue, Jul 16, 2024

A3.1 New Technology in Earth Observation and Applications for Sustainable Land Ecosystem

Main Scientific Organizer: Muramatsu, Kanako
Deputy Organizer: Guo, Linghua

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-028 A3.1-0019-24
Application of convolutional neural network using high spatial resolution satellite image for detecting the traditional Japanese windbreak forests
Yonezawa, Chinatsu; Naito, Koki

TWT-029 A3.1-0020-24
Optical Payloads and Ground Telescopes Development at Green Optics
Kim, Young-Soo; Kim, Dohoon; Lee, Changhee; Jo, Jaeyeong; Ryou, Junghun; Cho, Hyunil

TWT-030 A3.1-0021-24
Applying Xarray and Cloud Computing for Time Series Data Visualization and Analysis with Compact Advanced Satellite (CAS) 500 Images of Korea
Lee, Kiwon; Kim, Kwangseob; Lee, Hayoung; Lee, Junghee

TWT-031 A3.1-0022-24
Classification of forest types using GCOM-C/SGLI datasets and shadow index
Soyama, Noriko; Moriyama, Masao; Muramatsu, Kanako

Tue, Jul 16, 2024

B0.1 Planetary Science Highlights

Main Scientific Organizer: Grande, Manuel
Deputy Organizer: Cable, Morgan

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-032 B0.1-0010-24
Probabilities of collisions of bodies ejected from the Earth with the terrestrial planets and the Moon
Ipatov, Sergei I.

TWT-033 B0.1-0011-24
BIRDY - Planetary Geodesy of Small Bodies for Exploration or Reconnaissance

Hestroffer, Daniel; Segret, Boris; Allona, Enrique; Duhautois, Brice; Anohin, Kirill

Tue, Jul 16, 2024

B0.2 Instrumentation for Planetary Exploration

Main Scientific Organizer: Dirri, Fabrizio
Deputy Organizer: Shanmugam, M.

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

B0.2-0024-24 (WITHDRAWN)

Application of big data tools for handling data from space-born instruments
Rashev, Mikhail

TWT-034 B0.2-0025-24

A novel ultrasensitive mass spectrometer for detecting bio-particles in extraterrestrial ice
Gabrielli, Paolo; Bywaters, Kathryn; Olesik, John; Putnam, Jonathan; Seto, Emily; Williams, Ellen; Williams, Jeffrey; Zacny, Kris

TWT-035 B0.2-0026-24

Gravity Imaging Radio Observer (GIRO) and Advanced Pointing Imaging Camera (APIC)
Park, Ryan; Riedel, Joseph

TWT-036 B0.2-0027-24

μ-SAND: an innovative microbalance device for dust and volatile characterization for in-situ planetary exploration
Gisellu, Chiara; Palomba, Ernesto; Dirri, Fabrizio; Longobardo, Andrea; Biondi, David; Nardi, Enrico; Zampetti, Emiliano; Saggin, Bortolino; Scaccabarozzi, Diego

TWT-037 B0.2-0028-24

Optical design of the Panoramic Lens for the Earth-Moon-Mars (EMM) project
Greggio, Davide; Pernechele, Claudio; Martini, Paolo; Emanuele, Simioni; Corti, Marco Giovanni; Scaccabarozzi, Diego; Saggin, Bortolino; Lessio, Luigi; Esposito, Francesca; D'amico, Fabio; Cortesi, Ugo; Gai, Marco; Argan, Andrea; Donnarumma, Immacolata; Turchi, Alessandro

TWT-038 B0.2-0029-24

DISC (Dust Impact Sensors and Counter) perfromance evaluation by means of real and simulated Hyper Velocity impacts
Della Corte, Vincenzo; Rotundi, Alessandra; Cozzolino, Fabio; Piccirillo, Alicemaria; Longobardo, Andrea; Ferone, Alessio; Bertini, Ivano; Inno, Laura; Wozniakiewicz, Penelope; Burchell, Mark; Alesbrooke, Luke; Rothkaehl, Hanna

TWT-039 B0.2-0030-24

A Non-Destructive 3D Elemental Imager Based on Active Neutron Interrogation for Lunar Missions
Ayllon Unzueta, Mauricio; Parsons, Ann

TWT-040 B0.2-0031-24

Research into a EuroMoonMars-led Online Lunar Habitat Simulation: Exploring Sustainable and Self-Sufficient Solutions for Moon Exploration
Balfe, Molly; Laffey, Jack; Harvey, Matthew; Robertson, Caitlin; Horvat, Ivan; Fazel Hesar, Fatemeh; Foing, Bernard H.

B0.2-0032-24 (WITHDRAWN)

Miniaturized gas chromatographs based on MEMS technology for space instrumentation to probe the chem-ical composition of planetary environments
Szopa, Cyril; Szopa, Cyril; Bigourd, Malak; Cardinael, Pascal; Buch, Arnaud; Boco, Audrey; Philippart, Arnaud; Peulon-Agasse, Valerie; Coscia, David; Guerrini, Vincent; Bertrand, Fabrice; Ferreira, Frederic

TWT-042 B0.2-0033-24

Near-Ultraviolet Astronomical Observations from the Moon: Lunar Ultraviolet Cosmic Imager (LUCI) and more...
Safonova, Margarita; Safonova, Margarita; Chandra P, Bharat; Ghatul, Shubham; Gopalakrishnan Nair, Binukumar; Jain, Shubhangi; Babu, Mahesh; Mohan, Rekhesh; Murthy, Jayant; Foing, Bernard H.

TWT-043 B0.2-0034-24

DEVELOPMENT PLAN OF A 20-METER RADIO TELESCOPE AT TIMAU NATIONAL OBSERVATORY OF INDONESIA
Sitompul, Peberlin Parulian; Manik, Timbul; Batubara, Mario; Lathif, Musthofa; Suryana, Rizal; Mumtahana, Farahhati; Kesumaningrum, Rasdewita; Nurul Huda, Ibnu; Yushady Ch Bissa, Stevry; Hidayat, Taufiq; Razi, Pakhrur

Tue, Jul 16, 2024

B0.3 Technology for Planetary Exploration

Main Scientific Organizer: Longobardo, Andrea
Deputy Organizer: Smith, Heather

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-044 B0.3-0024-24

Compressively sensed decoding for deep space edges
Shan, Hao

TWT-045 B0.3-0025-24

Research on basic technology of planetary exploration scientific mission data utilization and management for On-Orbit Servicing mission design
Jang, Yoon-Jeong

TWT-046 B0.3-0026-24

PLANETARY SURFACE SIMULATOR FOR PLANETARY EXPLORATION AND ASTRONAUTIC PROGRAMS
Abdelaal, Mohamad

Tue, Jul 16, 2024

B1.1 Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense

Main Scientific Organizer: Milam, Stefanie
Deputy Organizer: Palomba, Ernesto

Meteors and Meteroids

Chair: Milam, Stefanie
Room: EC1-215

B1.1-0026-24 09:00 - 09:30 (solicited)

LUMIO: A CubeSat Mission to Detect Meteoroid Impacts on the Lunar Farside
Topputo, Francesco; Morselli, Alessandro Team: LUMIO Team p. 454

B1.1-0027-24 09:30 - 09:45

Meteoroid Flux Measurement from the Earth to Cis-lunar Space by the EQUULEUS/CLOTH Detectors
Yano, Hajime; Hirai, Takayuki; Iwata, Shoya; Maillot, Simon; Fujii, Masayuki; Masuchi, Riku; Arai, Kazuyoshi; Nakazawa, Junichiro; Hasegawa, Sunao; Kooi, Steven; Nelson, Keith; Fuse, Ryota; Nakajima, Shintaro; Funase, Ryu

B1.1-0028-24 (WITHDRAWN) 09:45 - 10:05

Research activities to support the protection of spacecraft against micrparticle impacts
Millinger, Mark

B1.1-0029-24 10:05 - 10:20

Co-orbital Dynamical Pathways of Lunar Ejecta
Castro-Cisneros, Jose Daniel; Rosengren, Aaron J.; Malhotra, Renu

Coffee Break

Missions

Chair: Nakamura, Tomoki
Room: EC1-215

B1.1-0030-24 11:00 - 11:30 (solicited)

Martian Moons eXploration MMX rescheduled for launch in 2026
Miyamoto, Hirdy; Miyamoto, Hideaki; Kuramoto, Kiyoshi; Kawakatsu, Yasuhiro; Fujimoto, Masaki; Barucci, Maria Antonietta; Genda, Hidenori; Hirata, Naru; Imamura, Takeshi; Helbert, Jorn; Kameda, Shingo; Kobayashi, Masanori; Kusano, Hiroki; Lawrence, David; Matsumoto, Koji; Michel, Patrick; Nakagawa, Hiromu; Nakamura, Tomoki; Ogawa, Kazunori; Otake, Hisashi; Ozaki, Masanobu; Russell, Sara; Sasaki, Sho; Senshu, Hiroki; Terada, Naoki; Ulamec, Stephan; Usui, Tomohiro; Wada, Koji; Yokota, Shoichiro

B1.1-0031-24 11:30 - 12:00 (solicited)

MMX Rover IDEFIX, ready for in-situ exploration of Phobos
Ulamec, Stephan; Michel, Patrick; Grott, Matthias; Schröder, Susanne; Cho, Yuichiro; Prieto-Ballesteros, Olga; Hübers, Heinz-Wilhelm; Murdoch, Naomi; Vernazza, Pierre; Biele, Jens; Tardivel, Simon; Miyamoto, Hirdy

B1.1-0032-24 12:00 - 12:15

Modeling the possible magnetic properties of the MMx Phobos sample
Rosenblatt, Pascal; Maurel, Clara; Gattacceca, Jerome; Duprat, Jean; Dunseath-Terao, Mariko; Dunseath, Kevin

B1.1-0033-24 12:15 - 12:30

The Comet Interceptor mission
Vincent, Jean-Baptiste; Jones, Geraint; Martellato, Elena; Snodgrass, Colin; Guilbert-Lepoutre, Aurelie; Goetz, Charlotte; Seiji, Sugita; Küppers, Michael

Lunch Break

Missions

Chair: Holt, Carrie
Room: EC1-215

B1.1-0034-24 15:00 - 15:30 (solicited)

DESTINY+ asteroid flyby of Geminids parent Phaethon
Arai, Tomoko; Ishibashi, Ko; Kobayashi, Masanori; Hirai, Takayuki; Kimura, Hiroshi; Okamoto, Takaya; Yamada, Manabu; Yoshida, Fumi; Nishiyama, Kazutaka; Imamura, Hiroshi; Takashima, Takeshi Team: DESTINY+ Team p. 450

B1.1-0035-24 15:30 - 15:45

Expected Scientific Contributions of the Interstellar Dust Experiment (IDEX) onboard the Interstellar Mapping and Acceleration Probe (IMAP) Mission to Connect the Local Interstellar Medium to the Solar System
Horanyi, Mihaly; Sternovsky, Zoltan; Szalay, Jamey; Kempf, Sascha; Ayari, Ethan; Mikula, Becca

B1.1-0036-24 15:45 - 16:00

Science Overview of the Emirates Mission to the Asteroid Belt
Almazmi, Hoor; Hayne, Paul; Landis, Margaret; Bottke, William

B1.1-0037-24 16:00 - 16:15

THE MWIR IMAGING SPECTROMETER FOR TARGET-ASTEROIDS (MIST-A) ABOARD THE EMIRATES MISSION TO EXPLORE THE ASTEROID BELT
Filacchione, Gianrico; Ciarniello, Mauro Team: MIST-A team p. 454

B1.1-0038-24 16:15 - 16:30

Dust, Field and Plasma(DFP) instrument onboard Comet Interceptor ESA mission as the tool for diagnostics of the comet and their environment
Rothkaehl, Hanna; Andre, Nicolas; Auster, Hans-Ulrich; Della Corte, Vincenzo; Edberg, Niklas J. T.; Galand, Marina; Henri, Pierre; De Keyser, Johan; Kolmasova, Ivana; Morawski, Marek; Nilsson, Hans; Prech, Lubomir; Volwerk, Martin; Goetz, Charlotte; Gunell, Herbert; Lavraud, Benoit; Rotundi, Alessandra; Soucek, Jan

Coffee Break

Centaurs, TNOs, Trojans

Chair: Milam, Stefanie
Room: EC1-215

B1.1-0039-24 09:00 - 09:20 (solicited)

Discoveries in the Field of Trans-Neptunian Objects by the James Webb Space Telescope
Protopapa, Silvia; Emery, Josh; Glein, Christopher; Grundy, William; Guilbert-Lepoutre, Aurelie; Hammel, Heidi; Hines, Dean; Holler, Bryan; Lunine, Jonathan; Milam, Stefanie; Parker, Alex; Pinilla-Alonso, Noemi; Raut, Ujjwal; Stansberry, John; Wong, Ian Team: GTO TNO Team p. 451

B1.1-0040-24 09:20 - 09:40 (solicited)

CO & CO2 & H2O, oh my!
Harrington Pinto, Olga; Bodewits, Dennis; Mckay, Adam; Faggi, Sara; Schambeau, Charles; Kelley, Michael; Disanti, Michael; Womack, Maria; Villanueva, Geronimo; Fernandez, Yanga; Bauer, James; Feaga, Lori; Wierzchos, Kacper

B1.1-0041-24 09:40 - 09:55

JWST observations of Chiron: A unique active Centaur beyond 18 AU
Wong, Ian; Protopapa, Silvia; Holler, Bryan; Villanueva, Geronimo; Brunetto, Rosario; de Souza Feliciano, Ana Carolina; Emery, Josh; Fernandez-Valenzuela, Estela; Guilbert-Lepoutre, Aurelie; Licandro, Javier; Pinilla-Alonso, Noemi; Stansberry, John

B1.1-0042-24 09:55 - 10:10

The Shape and Formation of Arrokoth from New Horizons Observations
Porter, Simon; Singer, Kelsi; Schenk, Paul; Verbiscer, Anne; Parker, Joel; Brandt, Pontus; Stern, Alan Team: New Horizons Science Team p. 455

B1.1-0043-24 10:10 - 10:25

Jovian Trojan Colors: Crystalline Water Ice, Fairy Castles, and Impacts
Lisse, Carey Team: Jovian Trojan Colors Team p. 453

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B1.1 Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense

Main Scientific Organizer: Milam, Stefanie
Deputy Organizer: Palomba, Ernesto

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-047 B1.1-0055-24

EnVisS: the Entire-Visible-Sky camera for the Comet Interceptor ESA mission
Da Deppo, Vania; Della Corte, Vincenzo; Zuppella, Paola; Lara, Luisa; Castro Marin, José M.; Gutierrez, Pedro Team: EnVisS Team p. 450

TWT-048 B1.1-0056-24

Mass Determination of the Target Asteroids of the LUCY Mission
Hahn, Matthias; Paetzold, Martin; Andert, Thomas; Levison, Harold; Noll, Keith; Marchi, Simone

TWT-049 B1.1-0057-24

The introduction of Korea Meteor Monitoring and Observation Network : system overview
Roh, Dong-Goo

TWT-050 B1.1-0058-24

Mathematical model of the origin of dense rings taking into account the gravity and magnetism of Saturn
Tchernyi, Vladimir; Kapranov, Sergey

TWT-051 B1.1-0059-24

STREAMS AND ASSOCIATIONS OF METEOROIDS ACCORDING TO THE RESULTS OF RADAR OBSERVATIONS IN HISAO FOR JANUARY 1970
Narziev, Mirhusen; Khujanazarov, Habibjon

TWT-052 B1.1-0060-24

Space weathering simulation with UV Irradiation - rapid decrease in visible reflectance
Sasaki, Sho; Morimitsu, Shin-Ichi; Kaiden, Hiroshi; Egashira, Yusuke; HIroi, Takahiro; Hasegawa, Sunao; Wada, Takehiko

TWT-053 B1.1-0061-24

NSOS-a: Near Space Optical Survey-alpha Telescope
Kim, Myungjin Team: NSOS-a p. 455

TWT-054 B1.1-0062-24

Detection of Cometary Activity on Centaur 2014 OG392
Jevcak, Peter; Lilly, Eva; Silha, Jiri

Tue, Jul 16, 2024

B3.1 Lunar Science and Exploration

Main Scientific Organizer: Bhatt, Megha
Deputy Organizer: Foing, Bernard H.

Laboratory experiments for advancing lunar exploration

Chair: Korsmeyer, David
Room: EC1-217

B3.1-0037-24 09:00 - 09:15

TOWARD LAB BASED EMPIRICAL ESTIMATES OF SUBLIMATION RATES OF ICE EMBEDDED IN LUNAR REGOLITH
Gabrielli, Paolo; Bywaters, Kathryn; Fishman, Jake; Seto, Emily; Zacny, Kris

B3.1-0038-24 09:15 - 09:30

Laboratory experiment of the opposition effect on the lunar fairy castle structure using 3D printer
Lee, Mingyeong; Jeong, Minsup; Choi, Young-Jun

B3.1-0039-24 09:30 - 09:45

A New Framework for Lunar Regolith Simulant Development
Kwon, Gyeongrok; Kim, Kyeong; Yi, Eungseok; Hong, Ik-Seon; Kim, Suyeon

B3.1-0040-24 09:45 - 10:00

Effectiveness of Lunar Regolith as Shielding Material from Galactic Cosmic Rays and Secondary Particles
Kunja, Lasany Arfin; Kim, Eojin; Sohn, Jongdae; Yi, Yu

B3.1-0041-24 10:00 - 10:15

Moon Moisture Targeting Observatory (MoMoTarO) for water resource exploration and basic science application
Tsuji, Naoki; Enoto, Teruaki; Nagaoka, Hiroshi; Maeda, Ryota; Kato, Yo; Taniguchi, Kentaro; Hareyama, Makoto; Otake, Yoshie; Wakabayashi, Yasuo; Takanashi, Takaoki; Iwamoto, Chihiro; Kobayashi, Taizo; Ikenaga, Taichi; Nakano, Yuuki; Tsukamoto, Yushi; Kusano, Hiroki; Tamagawa, Toru; Hoshino, Takeshi; Ueno, Munetaka; Ozaki, Naoya; Nakazawa, Kazuhiro; Takahashi, Hiromitsu; Kisaka, Shota; Hotokezaka, Kenta

B3.1-0042-24 10:15 - 10:30

Advancing lunar exploration through agile reconnaissance with Hopter Galago: the South Pole mission scenario
Gurgurewicz, Joanna; Wiśniewski, Łukasz; Grygorczuk, Jerzy; Mège, Daniel; Przerwa, Mateusz; Rataj, Miroslaw

Coffee Break

Advancements in Payload Development I

Chair: Watson, Chris
Room: EC1-217

B3.1-0043-24 11:00 - 11:15

DALO: Science Payload Candidates for NASA's Artemis/CLPS Lunar Landers
Sim, Chae Kyung; Choi, Young-Jun; Lee, Dukhang; Baek, Seul-Min; Shin, Jehyuck; Seon, Jongho; Kim, Sungsoo; Jeong, Minsup; Ye, Sung-Joon; Jin, Ho

B3.1-0044-24 (WITHDRAWN) 11:15 - 11:30

The European Radiation Sensor Array (ERSA) payload for the Lunar Gateway
Jiggens, Piers Team: ERSA Project Team p. 450

B3.1-0045-24 11:30 - 11:45

LUNA-SPIDER: Biomimetic Design for Efficient and Adaptable Exploration of Lunar Lava Tubes
Singh, Dushyant; Mani, Vipul

B3.1-0046-24 11:45 - 12:00

Electrostatic and Magnetic Dust Cleaning Devices for Long-Term Lunar Explorations
Adachi, Masato; Goda, Ryo; Nitano, Ryudai; Tanaka, Kosuke; Kanamori, Hiroshi

B3.1-0047-24 12:00 - 12:15

Visual-Inertial SLAM for Planetary Exploration and Space Construction
Gong, Junho; Na, Jong-Ho; Kim, Tae-Hoon; Hong, Sungchul; Shin, Hyu-Soung

B3.1-0048-24 12:15 - 12:30

Development of Lunar Vehicle Radiation Dosimeter for the Study of Radiation Environment on the Lunar Surface
Youn, Sukwon Team: LVRAD Team p. 454

Lunch Break

Advancements in Payload Development II

Chair: Jiggens, Piers
Room: EC1-217

B3.1-0049-24 15:00 - 15:15

A Lunar Surface Magnetotelluric Observation on the Korean Lunar Lander
Kim, Hogyum; Lee, Sang-Mook; Grimm, Robert

B3.1-0050-24 15:15 - 15:30

TSUKIMI: lunar Terahertz SUrveyor for KIlometer-scale MappIng
Kasai, Yasuko; Nishibori, Toshiyuki; Miyamoto, Hirdy; Maezawa, Hiroyuki; Honda, Tesuya Team: TSUKIMI p. 460

B3.1-0051-24 15:30 - 15:45

Radio Instrument Package for Lunar Ionospheric Observation: A Concept Study
Watson, Chris; Jayachandran, Thayyil; Kashcheyev, Anton; Themens, David R.; Langley, R; Marchand, Richard

B3.1-0052-24 15:45 - 16:00

A Study on development of a local positioning system on the Moon
Jung, Danim; Kim, Eugene; Kim, Euiho

B3.1-0053-24 16:00 - 16:15

Thermal Design of a Radioisotope Heater Unit Warm Electronics Box for a Lunar Rover
Kim, Sunjin; Kim, Hui-Kyung; Kim, Jong-Bum; Kim, Jin-Joo; Kim, Jin; Jeong, Yongrok; Kwon, Sukcheol; Kang, Gu-Jin; Rew, Dong Young; Hong, Jintae

B3.1-0054-24 16:15 - 16:30

Development of a Reusable Lunar Environment Electrical Connector, The Dust Tolerant Connector
Indyk, Stephen; Mellman, Benjamin; Tomasco, Sarah; Bywaters, Kathryn; Traeden, Nick; Carlson, Lee; Zacny, Kris

Coffee Break

Conceptual design and regulatory frameworks

Chair: Bhatt, Megha
Room: EC1-217

B3.1-0055-24 17:00 - 17:15

ENDURANCE: A Long-Range Sample Return Rover for Sustained Lunar Science
Baker, John; Lopes, Rosaly; Keane, James

B3.1-0056-24 17:15 - 17:30

Endurance: Exploring the Early Solar System by Traversing the Largest, Oldest, and Deepest Impact Basin on the Moon
Keane, James; Baker, John; Lopes, Rosaly

B3.1-0057-24 17:30 - 17:45

Lunar Impact Flash Observing Mission by 6U Spacecraft EQUULEUS
Abe, Shinsuke; Yanagisawa, Masahisa; Fuse, Ryota; Kawabata, Yosuke; Nakajima, Shintaro; Yano, Hajime; Funase, Ryu

B3.1-0058-24 17:45 - 18:00

FUV Astronomy from the Moon: Exploring Lunar/Earth Environment
Ghatul, Shubham; Foing, Bernard H.; Chandra P, Bharat; Jain, Shubhangi; Gopalakrishnan Nair, Binukumar; Babu, Mahesh; Mohan, Rekhesh; Murthy, Jayant

B3.1-0059-24 18:00 - 18:15

Towards the Utilisation of Lunar Resources: Advances in Material Handling, Beneficiation, Classification, and Mine Optimisation at Imperial College London
Rasera, Joshua; Cruise, Reuben; Salinas Farran, Luis; Yu, Yue; Malone, Luka; Ikeya, Kosuke; Starr, Stanley; Hadler, Kathryn; Cilliers, Jan

B3.1-0060-24 18:15 - 18:30
ITU Radio Regulations and Decisions from the World Radiocommunication Conference of 2023 affecting frequency usage by space exploration missions
Loo, Chuen Chern; Wang, Xiuqi

Tue, Jul 16, 2024

B3.1 Lunar Science and Exploration

Main Scientific Organizer: Bhatt, Megha
Deputy Organizer: Foing, Bernard H.

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-055 B3.1-0061-24
Korea Pathfinder Lunar Orbiter (KPLO) Gamma-ray Spectral Data Processing for the Lunar Elemental Map
Kim, Suyeon; Kim, Kyeong; Hong, Ik-Seon; Yi, Eungseok; Kim, Sangwoo; Kwon, Gyeongrok

TWT-056 B3.1-0062-24
Data Correction of KPLO Gamma-Ray Spectrometer (KGRS)
Hong, Ik-Seon; Kim, Suyeon; Kim, Kyeong

TWT-057 B3.1-0063-24
Polarimetric Analysis of Reiner Gamma Swirl Using Danuri's PolCam Data
Jeong, Minsup; Choi, Young-Jun; Kim, Sungsoo; Baek, Kilho; Moon, Bongkon; Lee, Dukhang; Sim, Chae Kyung; Kang, Kyungin; Koo, Bonju

TWT-058 B3.1-0064-24
Lunar magnetic field observations by KMAG onboard KPLO
Kim, Khan-Hyuk; Jin, Ho; Baek, Seul-Min; Lee, Jaehee; Jo, Wooin; Park, Hyeonhu; Lee, Junhyun; Jang, Yunho; Kang, Hyeonji; Choi, Young-Jun; Kim, Eunhyeuk

TWT-059 B3.1-0065-24
KMAG Observation of the solar Magnetic field speed in cis-lunar space
Ahn, Yesun; Jin, Ho; Jo, Wooin; Kim, Khan-Hyuk; Garrick-Bethell, Ian; Park, Hyeonhu

TWT-060 B3.1-0066-24
Analyses on reflectance spectra of Apollo samples and grain size estimation using the Hapke model
Cho, Eunjin; Jeong, Minsup; Trang, David; Sim, Chae Kyung; Kim, Serin; Li, Shuai; Choi, Young-Jun; Kim, Sungsoo; Yi, Yu

TWT-061 B3.1-0067-24
Polarimetric Experiments of Lunar Soil Samples by Particle Size
Kim, Serin; Li, Shuai; Jeong, Minsup; Baek, Kilho; Kim, Sungsoo; Cho, Eunjin; Choi, Young-Jun

B3.1-0068-24 (WITHDRAWN)
LEIA: NASA's first biological mission on the lunar surface since 1972
Santa Maria, Sergio

TWT-063 B3.1-0069-24
Maturation by Solar-Wind Particles and Refreshment by Meteorite Impacts on the Lunar Crater Walls
Baek, Kilho; Kim, Sungsoo; Sim, Chae Kyung

TWT-064 B3.1-0070-24
Detection of Lava Tube Network Beneath Pit Cluster on the Moon with Gravimetry
Hong, Ik-Seon; Kim, Kyeong; Yi, Yu

TWT-065 B3.1-0071-24
The Relationship Between the Energization of Moon-originating Ions and Terrain Type on the Lunar Surface
Lee, Jaehee; Kim, Khan-Hyuk; Baek, Seul-Min; Jin, Ho; Saito, Yoshifumi; Nishino, Masaki N.; Yokota, Shoichiro

TWT-066 B3.1-0072-24
The Observations of Low Energy Plasma and Magnetic Field Oscillations in the Lunar Wake
Baek, Seul-Min; Kim, Khan-Hyuk; Seough, Jungjoon; Choi, Young-Jun; Jin, Ho

TWT-067 B3.1-0073-24
Engineering Qualification Model of Dust Mitigation Module for GrainCams in Lunar Surface Exploration Mission
Shin, Jehyuck; Lee, Dukhang; Jeong, Minsup; Moon, Bongkon; Lee, Daehee; Kim, Woojin; Choi, Young-Jun

TWT-068 B3.1-0074-24
Optical Design and Analysis of SurfCam
Kim, Minbae; Kim, Jihun; Jeong, Minsup; Moon, Bongkon; Kim, Woojin; Choi, Seonghwan; Lee, Daehee; Lee, Dukhang; Sim, Chae Kyung; Park, Sung-Joon; Kim, Yunjong; Shin, Jehyuck; Baek, Seul-Min; Choi, Young-Jun; Kim, Sungsoo; Lee, Mingyeong

TWT-069 B3.1-0075-24
The path-tracing Simulation of a Light-Field Camera system, SurfCam/GrainCams for lunar surface exploration
Kim, Minbae; Lee, Mingyeong; Kim, Jihun; Jeong, Minsup; Moon, Bongkon; Kim, Woojin; Choi, Seounghwan; Lee, Daehee; Lee, Dukhang; Sim, Chae Kyung; Park, Sung-Joon; Kim, Yunjong; Shin, Jehyuck; Baek, Seul-Min; Choi, Young-Jun; Kim, Sungsoo

TWT-070 B3.1-0076-24
Requirement-Based Testing for Electronics System of the GrainCams Engineering Qualification Model
Kim, Nayeon; Baek, Seul-Min; Shin, Jehyuck; Kim, Woojin; Moon, Bongkon; Lee, Dukhang; Jeong, Minsup; Sim, Chae Kyung; Choi, Young-Jun; Lee, Daehee

TWT-071 B3.1-0077-24

Test results of the GrainCams, a payload for a CLPS lunar rover
Kim, Woojin; Moon, Bongkon; Lee, Dukhang; Lee, Daehee; Kim, Minbae; Jeong, Minsup; Kim, Jihun; Park, Sung-Joon; Kim, Yunjong; Choi, Seounghwan; Shin, Jehyuck; Lee, Mingyeong; Sim, Chae Kyung; Choi, Young-Jun; Kim, Sungsoo

TWT-072 B3.1-0078-24

Towards Safer Lunar Habitats: Strategies for Detecting and Mitigating Moonquake Risks
Shende, Pramit; Hashir, Muhammad

TWT-073 B3.1-0079-24

Proposal of lunar habitation protection structure and SHM system
Kim, Hyungdo; Chung, Joon Soo

TWT-074 B3.1-0080-24

Study on the Application of Inter-Satellite Link in Cis-Lunar space Navigation
Chen, Yanling; Huang, Yong; Yang, Peng; Li, Peijia; Zhou, Shanshi

TWT-075 B3.1-0081-24

Mechanical and Thermal Design of LVRAD, A Lunar Surface Payload for the Study of Radiation Environment in the Lunar South Pole Region
Lee, Dukhang; Nam, Uk-Won; Sohn, Jongdae; Park, Won-Kee; Youn, Sukwon; Kim, Sunghwan; Kim, Hongjoo; Shin, Jehyuck; Sim, Chae Kyung; Choi, Young-Jun; Jun, Insoo; Ye, Sung-Joon

TWT-076 B3.1-0082-24

Suitability of Mare Vaporum as a Landing Site for Resource Utilization
Yi, Eungseok; Hess, Marcel; Kim, Kyeong; Wöhler, Christian; Berezhnoy, Alexey

TWT-077 B3.1-0083-24

Ice Drilling for Lunar Surface Exploration and Shear Strength Evaluation
Ryu, Byung Hyun; Jin, Hyunwoo; Lee, Jangguen

TWT-078 B3.1-0084-24

Modelling and simulation of remote sensing resident space objects in the cislunar region
Heo, Jun Hyuk

TWT-079 B3.1-0085-24

Exploring the Potential of New Remote Control Technology
Fazel Hesar, Fatemeh; Foing, Bernard H. Team: Eurospacehub academy p. 450

Tue, Jul 16, 2024

B4.1 Mercury Science and Exploration

Main Scientific Organizer: Benkhoff, Johannes
Deputy Organizer: Murakami, Go

Room: EC1-216

B4.1-0001-24 11:00 - 11:15

The BepiColombo Mission to Mercury: Overview and First Results
Benkhoff, Johannes; Murakami, Go

B4.1-0002-24 11:15 - 11:45 (solicited)

Overview of the initial results from BepiColombo Mercury flybys
Murakami, Go; Benkhoff, Johannes

B4.1-0003-24 11:45 - 12:00

The role of graphite in the formation of thrust faults on Mercury
Vergara Sassarini, Natalia Amanda; Massironi, Matteo; Gacomini, Lorenza; Tesei, Telemaco; Bistacchi, Andrea

B4.1-0004-24 12:00 - 12:15

Direct detection of ongoing magnetic reconnection at Mercury's high-latitude magnetopause
Wang, Rongsheng; Cheng, Zihang; Slavin, James; Lu, Quanming; Lu, San; Raines, Jim; Gonzalez, Walter

B4.1-0005-24 12:15 - 12:30

A Comparison Between Compressibility of Earth and Mercury's Magnetospheres
Shue, Jih-Hong

Tue, Jul 16, 2024

B4.1 Mercury Science and Exploration

Main Scientific Organizer: Benkhoff, Johannes
Deputy Organizer: Murakami, Go

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-080 B4.1-0006-24

Prospects for Understanding Hollow Morphology with Filtered Laser Altimeter Measurements
Stenzel, Oliver J.; Hilchenbach, Martin

TWT-081 B4.1-0007-24

Strofio operations: a new molecular beam facility
Schroeder, Jared; Livi, Stefano; Patrick, Edward; Turner, John

Tue, Jul 16, 2024

B4.2 Venus Science and Exploration

Main Scientific Organizer: Lee, Yeon Joo
Deputy Organizer: Wilson, Colin

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-082 B4.2-0037-24

Radio Scintillations observed during Venus Express radio occultation measurements
Oschlisniok, Janusz; Paetzold, Martin; Tellmann, Silvia; Häusler, Bernd

TWT-083 B4.2-0038-24

Absorption characterization of Venusian clouds using HST-STIS observations
Modak, Ashimananda; Lee, Yeon Joo

TWT-084 B4.2-0039-24

Observations of HDO and H2O over Venus nightside by IRTF/iSHEL
Aoki, Shohei; Robert, Severine; Sagawa, Hideo; Sato, Takao; Vandaele, Ann C.; Erwin, Justin; Marcq, Emmanuel; Iwanaka, Tatsuro; Imamura, Takeshi

TWT-085 B4.2-0040-24

Acidophilic fungi – new candidates for the unknown UV absorber in the Venus clouds?
Słowik, Grzegorz; Olewicz, Anna; Kolarik, Miroslav

TWT-086 B4.2-0041-24

Characterization of small-scale UV contrasts at Venus's cloud top level
Kang, Hyeonju; Lee, Yeon Joo

TWT-087 B4.2-0042-24

THE JOINT NASA-ESA VENUS SCIENCE COORDINATION GROUP (VESCOOR) TO SUPPORT THE THREE VENUS SPACECRAFT
Marinangeli, Lucia; Mcgovern, Patrick J.; Straume-Lindner, Anne Grete; Colangeli, Luigi; Zouganelis, Ioannis; Schulte, Mitchell; de Paula, Ramon; Hays, Lindsay Team: VeSCoor Group p. 461

Tue, Jul 16, 2024

B4.4 Forward Planning for the Exploration of Mars

Main Scientific Organizer: Haltigin, Timothy
Deputy Organizer: Hays, Lindsay; Kminek, Gerhard; Matousek, Steven

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-088 B4.4-0008-24

TESTING THERMOANALYTICAL TECHNIQUES FOR MARS SAMPLE RETURN MISSION: MICROALGAE AS PROOF OF CONCEPT
Ruiz-Bermejo, Marta; Blasco, Blanca; Aguilera, Angeles; Mateo-Marti, Eva

Tue, Jul 16, 2024

B5.1 Jupiter, the Galilean Satellites, Rings and Magnetospheres: Juno Results

Main Scientific Organizer: Bolton, Scott
Deputy Organizer: Connerney, John E.p.

Room: EC1-216

B5.1-0011-24 09:00 - 09:20

The gas giants' wind structure below the cloud level: insights from Juno and Cassini high-degree gravity measurements
Galanti, Eli; Kaspi, Yohai; Durante, Daniele; Iess, Luciano; Park, Ryan; Duer, Keren; Gavriel, Nimrod; Parisi, Marzia; Buccino, Dustin; Guillot, Tristan; Stevenson, David John; Bolton, Scott

B5.1-0012-24 09:20 - 09:40

Exploring the existence of a radiative zone in Jupiter's deep atmosphere
Siebenaler, Louis; Miguel, Yamila

B5.1-0013-24 09:40 - 10:10

Juno Microwave Radiometer Observations into the Subsurface of the Ice Shells of Io, Europa and Ganymede
Ermakov, Anton; Bolton, Scott; Zhang, Zhimeng; Brown, Shannon; Levin, Steven; Akiba, Ryunosuke; Lunine, Jonathan; Feng, Jianqing; Hand, Kevin; Misra, Sidharth; Hartogh, Paul; Stevenson, David John; Bonnefoy, Lea

B5.1-0014-24 10:10 - 10:30

Juno's exploration of Jupiter's moons, ring system, and dark side: Latest Results from the Juno SRU
Becker, Heidi; Schenk, Paul; Lopes, Rosaly; Mura, Alessandro; Tosi, Federico; Florence, Meghan; Brennan, Martin J; Lunine, Jonathan; Hansen, Candice; Martos, Yasmina M; Wong, Michael H.; Bolton, Scott; Alexander, James W

Tue, Jul 16, 2024

B5.1 Jupiter, the Galilean Satellites, Rings and Magnetospheres: Juno Results

Main Scientific Organizer: Bolton, Scott
Deputy Organizer: Connerney, John E.p.

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-089 B5.1-0015-24

Structure and dynamics of the Io Plasma Torus: from multi-spacecraft and multi-instrument observations to models
Vinci, Giuliano; Blanc, Michel; Smith, H Todd; Nenon, Quentin; Devinat, Marie; Liu, Zhi-Yang; Wang, Yuxian

TWT-090 B5.1-0016-24

Global Distribution of Energetic Protons and Their Precipitation into the Atmosphere at Jupiter
Shen, Xiaochen; Li, Wen; Ma, Qianli

Tue, Jul 16, 2024

B5.3 Ocean Worlds: Past, Present, and Future

Main Scientific Organizer: Cable, Morgan
Deputy Organizer: Solomonidou, Anezina

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-091 B5.3-0012-24

Amino Acid-Mediated Formation of CO2 in Flash-Frozen Ceres Brines
Vu, Tuan; Reynoso, Lucas; Johnson, Paul; Hodyss, Robert

Tue, Jul 16, 2024

B6.1-E4.1 Exoplanet Detection and Characterisation: Current Research, Future 0pportunities and the Search for Life Outside the Solar System

Main Scientific Organizer: Altieri, Francesca
Deputy Organizer: Ireland, Michael

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-092 B6.1-0018-24

Broadband Linear Polarimetry of Exoplanet Upsilon Andromedae b: Constraints on the Orbital and Physical Parameters
Abdul Qadir, Yasir; Berdyugin, Andrei; Kravtsov, Vadim; Sakanoi, Takeshi; Kagitani, Masato; Poutanen, Juri

TWT-093 B6.1-0019-24

Spectral Insights into Exoplanetary Atmospheres: A Case Study of WASP-189b through CUTE's Ultraviolet Observations
Duann, Yi; Chang, Loren; Ip, Wing-Huen; France, Kevin; Lin, Chia-Lung; Huang, Li-Ching; Chou, Hui-Hui

TWT-094 B6.1-0020-24

Assessing the detectability of Earth-like atmospheres on terrestrial planets orbiting M-dwarf stars using High-Resolution Spectroscopy
Emeka-Okafor, Vanessa

Tue, Jul 16, 2024

C0.1 International Standards for Space Environment

Main Scientific Organizer: Tobiska, W Kent
Deputy Organizer: Kitazawa, Yukihito

Room: EC1-311

C0.1-0001-24 11:00 - 11:30 (solicited)

ISO Standards on Space Weather Factors and Effects
Kalegaev, Vladimir; Tobiska, W Kent

C0.1-0002-24 11:30 - 12:00

Standards for the Earth's Atmosphere
Rees, David

C0.1-0003-24 12:00 - 12:30

Space Debris and Global Warming Viewed from the Long-term Sustainability of Outer Space Activities
Yoshimura, Yasuhiro; Hanada, Toshiya; Liu, Huixin; Harada, Ryusuke; Kawamoto, Satomi

Coffee Break

Room: EC1-311

C0.1-0004-24 15:00 - 15:30

Space Environmental Measurements and Aeronomy Study by Small Spacecraft with Reentry Capsule
Kuwahara, Toshinori; Saito, Takumi; Takeda, Kohei

C0.1-0005-24 15:30 - 16:00

ISO Standards relating to the use of a range of Lidar Systems for atmospheric measurements of importance to meteorology and atmospheric science
Rees, David

C0.1-0006-24 16:00 - 16:30

ISO DEFINITIONS OF THE SPACE WEATHER INFORMATION
Tobiska, W Kent; Kalegaev, Vladimir

Lunch Break

Room: EC1-311

C0.1-0007-24 17:00 - 17:30

Standalization Activity for space environment in Japan
Kimoto, Yugo; Kitazawa, Yukihito

C0.1-0008-24 17:30 - 18:00 (solicited)

Standardization activities in ICAO space weather coordination group
Ishii, Mamoru

Tue, Jul 16, 2024

C0.1 International Standards for Space Environment

Main Scientific Organizer: Tobiska, W Kent
Deputy Organizer: Kitazawa, Yukihito

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-095 C0.1-0009-24

Modeling of the plasma environment for spacecraft surface charging statistical analysis in the inner magnetosphere
Nakamura, Masao; Matsui, Daichi

Tue, Jul 16, 2024

C0.2 Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies

Main Scientific Organizer: Rees, David
Deputy Organizer: Kosch, Michael

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-096 C0.2-0025-24

Polarimetry of stratospheric aerosol on CubeSat satellite
Milinevskyi, Gennadii; ***Shi, Yu***; Shi, Yu; Syniavskyi, Ivan; Oberemok, Yevgeny; Sosonkin, Mikhail; Dlugach, Zhanna; Ivanov, Yuriy; Danylevsky, Vassyl; Yukhymchuk, Yuliia; Wei, Xuanyi

TWT-097 C0.2-0026-24

Inter-Satellite GPS Interference: Observation and Model
Abraham, Nancy; Jayachandran, Thayyil; Kashcheyev, Anton

TWT-098 C0.2-0027-24

Retrieval of total electron content from ship-borne GPS measurements in the ocean
Sohn, Dong-Hyo; Choi, Byung-Kyu; Hong, Junseok; Park, Yosup

TWT-099 C0.2-0028-24

Field-aligned Aspect Sensitivity of Mid-latitude E Region Plasma Irregularities Measured by a VHF Atmospheric Radar
You, Zhen-Xiong; Hashiguchi, H.

TWT-100 C0.2-0029-24

The results of wind retrieval based on a new ground-based Fabry-Perot interferometer
Wang, Houmao; Li, Pengda; Liu, Jiu; Wang, Ziyue

Tue, Jul 16, 2024

C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies

Main Scientific Organizer: Fagundes, Paulo Roberto
Deputy Organizer: Kavutarapu, Venkatesh

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-101 C1.1-0057-24
Global distribution of mesospheric temperature inversions at low latitudes
Subramanian, Gurubaran; Chauhan, Nilesh; Jadhav, Ashish

TWT-102 C1.1-0058-24
Optimizing Deep Learning Models for Ionospheric TEC Prediction: Insights from Storm-to-Quiet Day Ratios
Jeong, Se-Heon; Lee, Woo Kyoung; Kil, Hyosub; Jang, Soojeong; Kim, Jeongheon; Kwak, Young-Sil

C1.1-0059-24 (WITHDRAWN)
Forecasting Large-Scale Travelling Ionospheric Disturbances using the CatBoost ML Algorithm
Guerra, Marco; Cesaroni, Claudio; Spogli, Luca; Segarra, Antoni; Altadill, David; Belehaki, Anna; Ventriglia, Vincenzo

TWT-104 C1.1-0060-24
Magnetic field observation of sporadic E layer by the magnetometer (MAG) onboard the S-310-46 sounding rocket
Matsuoka, Ayako; Murata, Naofumi; Kojima, Hirotsugu; Kurita, Satoshi; Higashimura, Kan; Okuda, Ryuichi; Saito, Akinori

TWT-105 C1.1-0061-24
Cross-calibration of IGS TEC using Jason TEC at the Continent-ocean Boundary
Jeon, Woong; Ji, Eun-Young; Moon, Yong-jae; Kwak, Young-Sil

TWT-106 C1.1-0062-24
Pre-Earthquake Observation of the Indonesia Earthquake On 15 December 2017 using Space Borne and Ground Sensor
Mohamad Rizal, Nur Awatiff; Md Yusoff, Siti Harwani

C1.1-0063-24 (WITHDRAWN)
Simulation Study of the Counter-Streaming Beams Filamentation Instability in Transient Luminous Events' Streamers
Jujeczko, Paweł; Blecki, Jan; Mizerski, Krzysztof

C1.1-0064-24 (WITHDRAWN)
Advancing Ionospheric Prediction Over Egypt: A Hybrid Deep Learning Approach Using GNSS-TEC Measurements From a Dense Ground Network
Nooreldeen, Hassan; Mahrous, Ayman; Mahmoud, Ayman; Yossuf, Mohamed; Hussein, Amira; Shaker, A.

Tue, Jul 16, 2024

C1.2 Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras

Main Scientific Organizer: Jee, Geonhwa
Deputy Organizer: Wang, Wenbin

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-108 C1.2-0021-24
Classification of Ionograms in the Polar region by the Vertical Incidence Pulsed Ionospheric Radar at Jang Bogo Station, Antarctica
Back, Junho; Jee, Geonhwa; Kwon, Hyuck-Jin; Kim, Khan-Hyuk; Lee, Changsup; Ham, Young-Bae

TWT-109 C1.2-0022-24
Rocket observations of Alfven waves amplified by the ionospheric feedback instability
Akbari, Hassanali; Pfaff, Robert

TWT-110 C1.2-0023-24
Statistical Study of the Relationship Between Pi2 Waves and Aurora Luminosity Observed at Jang Bogo research station, Antarctica.
Kwon, Jong-Woo; Kwon, Hyuck-Jin; Jee, Geonhwa; Kim, Khan-Hyuk

TWT-111 C1.2-0024-24
Polar Middle Atmospheric Responses to Energetic Electron Precipitation (EEP) Using Numerical Model Simulations
Lee, Ji-Hee; Jee, Geonhwa

TWT-112 C1.2-0025-24
Variations of auroral occurrence with geomagnetic activity (Kp and IMF) and solar cycle at Jang Bogo Station, Antarctica
Cho, Yujin; Jee, Geonhwa; Ham, Young-Bae; Kwon, Hyuck-Jin; Kim, Ji Eun

TWT-113 C1.2-0026-24
Applying non-extensive (q-statistics) approach to auroras
Chernyshov, Alexander; Kozelov, Boris; Mogilevsky, Mikhail

Tue, Jul 16, 2024

C1.3 Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources

Main Scientific Organizer: Kwak, Young-Sil
Deputy Organizer: Kil, Hyosub

Equatorial plasma bubbles, Mars' IT, and GNSS application

Chair: Lin, Charles
Room: EC1-313

C1.3-0021-24 09:00 - 09:20 (solicited)
Simulation of equatorial ionospheric bubble from a Three-dimensional Eequatorial Spread F (TELF) model
Lei, Jiuhou; Li, Zezhong; Zhang, Binzheng

C1.3-0022-24 09:20 - 09:35
Seasonal-longitudinal variability of equatorial plasma bubbles observed by FS7/COSMIC2 and relevant to the Rayleigh-Taylor instability
Tsai, Lung-Chih; Su, Shin-Yi; Lv, Jun-Xian

C1.3-0023-24 09:35 - 09:55
Impact of the radio occultation retrieval on the electron density profiles by the equatorial plasma bubbles
Chen, Shih-Ping; Lin, Charles; Rajesh, P. K.

C1.3-0024-24 09:55 - 10:15 (solicited)
The contrasting response of the thermosphere and ionosphere to the 2018 global encircling dust storm on Mars
Liu, Huixin; Nagata, Noritsugu; Nakagawa, Hiromu

C1.3-0025-24 10:15 - 10:30
SIMuRG as an open science platform for GNSS driven ionospheric researches
Vesnin, Artem; Yasyukevich, Yury; Kiselev, Alexander

Coffee Break

Winds and traveling ionospheric disturbances

Chair: Wang, Rui
Room: EC1-313

C1.3-0026-24 11:00 - 11:20 (solicited)
Spatiotemporal variation on high-latitude thermospheric winds under different geomagnetic conditions
Lee, Changsup; Jee, Geonhwa; Ham, Young-Bae; Wu, Qian; Kwon, Hyuck-Jin; Kim, Jeong-Han

C1.3-0027-24 11:20 - 11:40
Deep propagation of weather generated Acoustic and Gravity Waves and their coupling to Traveling Ionospheric Disturbances over the United States.
Heale, Christopher; Inchin, Pavel; Lu, Xian; Wu, Haonan; Zhang, Shunrong

C1.3-0028-24 (WITHDRAWN) 11:40 - 12:00
Nighttime medium-scale traveling ionospheric disturbances over Japan: Generation and Evelution through multi-source data analysis
Fu, Weizheng; Otsuka, Yuichi; Yokoyama, Tatsuhiro

C1.3-0029-24 12:00 - 12:15
Ionospheric scintillation climatology over Ethiopia during the raising phase of solar cycle 24
Tesfu, Tesfay; Spogli, Luca; Gopalswamy, Nat

C1.3-0030-24 (WITHDRAWN) 12:15 - 12:30
A statistical study on the performance of detrending techniques, induced period error and near real-time observables for Travelling Ionospheric Disturbances detection
Guerra, Marco; Cesaroni, Claudio; Spogli, Luca; Ravanelli, Michela

Lunch Break

Atmospheric wave detection

Chair: Liu, Huixin
Room: EC1-313

C1.3-0031-24 15:00 - 15:20 (solicited)
Effects of low-atmospheric forecast errors on the IT system forecast: A case study
Song, In-Sun; Lee, Wonseok; Shim, Ja Soon

C1.3-0032-24 15:20 - 15:35
Planetary-scale MLT waves diagnosed through multi-station methods
He, Maosheng

C1.3-0033-24 (WITHDRAWN) 15:35 - 15:55
A mathematical model of Lithosphere-Ionosphere coupling for seismic events
Piersanti, Mirko; Carbone, Vincenzo; D'angelo, Giulia; Materassi, Massimo; Papini, Emanuele; Falanga, Mariarosaria; Recchiuti, Dario; Diego, Piero; Ubertini, Pietro

C1.3-0034-24 15:55 - 16:10
Multi-instrument Observations of a Sporadic E Layer Coupled with Sporadic Sodium Layer over Zhongshan, Antarctica
Chen, Xiangcai; Liu, Jianjun; Hu, Zejun

C1.3-0035-24 16:10 - 16:30
Polar tropopause modulation by planetary waves based on radiosonde observations
Wang, Rui; Huang, Kaiming

Tue, Jul 16, 2024

C1.3 Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources

Main Scientific Organizer: Kwak, Young-Sil
Deputy Organizer: Kil, Hyosub

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-114 C1.3-0036-24

A Study on Ionospheric Drift Variability in Sporadic E-Layers in the High Latitude Region: A Multifrequency Analysis Using the Canadian Advanced Digital Ionosonde
Nair, Gopika Rajeev; Jayachandran, Thayyil

TWT-115 C1.3-0037-24

Extreme ionospheric GNSS scintillation events over Korean Peninsula on November 5, 2023
Hong, Junseok; Choi, Byung-Kyu; Chung, Jong-Kyun; Lee, Woo Kyoung; Kil, Hyosub

TWT-116 C1.3-0038-24

Irregularities In The Ionosphere Observed Towards The GBAS Stations At Kuala Lumpur International Airport, Malaysia.
Rajwant Singh, Brelveenraj Kaur; Mohd Ali, Aiffah; Abdullah, Mardina; Bahari, Siti Aminah Binti

TWT-117 C1.3-0039-24

Comparative Analysis of Observational Data and Modeling Results regarding Hemispheric Asymmetry during the G3 Geomagnetic Storm of November 3-4, 2021
Kim, Jeongheon; Kwak, Young-Sil; Kwon, Hyuck-Jin; Lee, Changsup; Kam, Hosik; Lee, Jaewook; Yang, Tae-Yong; Jee, Geonhwa

TWT-118 C1.3-0040-24

THE INFLUENCE OF SEISMIC ACTIVITY ON THE HEIGHT HOMOGENEOUS ATMOSPHERE
Alimov, Obid; Zamonov, Malikasror; Murodova, Maknuna

TWT-119 C1.3-0041-24

Study on the Upper Atmospheric Wind Circulation over the Korean Peninsula
Lee, Jaewook; Kwak, Young-Sil; Kam, Hosik; Kim, Jeongheon; Yang, Tae-Yong

C1.3-0042-24 (WITHDRAWN)

Ionospheric perturbations associated with thunderstorm activity over IISc, Bangalore region.
Patil, Akshay; Pawar, Rani; Dharmaraj, Thiyagesan; Pawar, Sambhaji; Nade, Dada; D. Pawar, Sunil

TWT-120 C1.3-0043-24

Analysis of Earthquake-related Ionospheric Anomalies using Deep Learning Techniques
Park, Sun Mie; Choi, Ian; Song, Wonmin

TWT-121 C1.3-0044-24

Effects of Magnetic Field-Aligned Density Ducts on HF Radio Waves in the Top Side of the Ionosphere
Naeem, Danish; Lee, Dong-Hun

TWT-122 C1.3-0045-24

Preliminary results on detecting ionospheric irregularities using VHF specular meteor radar
Kam, Hosik; Kwak, Young-Sil; Yang, Tae-Yong; Lee, Jaewook

TWT-123 C1.3-0046-24

Solar and orbital effects on the terrestrial environment: temperature, ENSO, sea level and ice areas
Zharkova, Valentina; Vasilieva, Irina

Tue, Jul 16, 2024

C1.4 Space Weather and Earth's Atmosphere-Ionosphere

Main Scientific Organizer: Pedatella, Nicholas
Deputy Organizer: Chang, Loren

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-124 C1.4-0044-24

Smart-Shea 2022 Geomagnetic Cutoff Model
Robinson, Zachary; Smart, Don; Shea, Margaret; Boberg, Paul; Adams, James; Fisher, Jonathan; Fisher, Jonathan; Westlake, Wally; Suzuki, Jeren; Cole, Haley; Smith, Adam; Nonnast, Joseph

TWT-125 C1.4-0045-24

Simultaneous four-channel retrieval of O/OH/CO2/T in the nighttime MLT using SABER/TIMED limb emission observations
Kutepov, Alexander; Panka, Peter A.

TWT-126 C1.4-0046-24

The preliminary results of the equatorial and mid-latitude plasma blobs and bubbles observed by LP onboard the Small Scale Magnetospheric and Ionospheric Plasma Experiment (SNIPE)
Kim, Eojin; Park, Jaeheung; Sohn, Jongdae; Yang, Tae-Yong; Song, Hosub; Lee, Jaejin; Yi, Yu

C1.4-0047-24 (WITHDRAWN)

Examining Equatorial Plasma Bubble Behavior during quiet days in Southeast Asia
Johari, Nur Alia Natasha; Sarudin, Idahwati; Abdul Hamid, Nurul Shazana; Ismail, Nur Azwin

C1.4-0048-24 (WITHDRAWN)

Investigating Equatorial Plasma Bubble Characteristics over South America using ICON Satellite and All-Sky Imager
Yacoub, Moheb; Shiokawa, Kazuo; Abdelwahab, Moataz; Mahrous, Ayman

TWT-129 C1.4-0049-24

New Routine for Calculating the non-LTE CO2 15-micron Cooling of Mesosphere and Lower themosphere in GCMs
Kutepov, Alexander; Feofilov, Artem

Tue, Jul 16, 2024

C2.1 Gravity Waves and Turbulence in the Middle Atmosphere and Lower Ionosphere

Main Scientific Organizer: Wing, Robin
Deputy Organizer: Strelnikov, Boris

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-130 C2.1-0020-24

Investigation of short-period gravity wave variabilities from Mesospheric Temperature Mapper (MTM) observation over King Sejong Station, Antarctica
Kim, Jeong-Han; Kim, Ji Eun; Kam, Hosik; Jee, Geonhwa; Lee, Changsup; Song, Byeong-Gwon Team: Polar Upper Atmosphere Research p. 457

TWT-131 C2.1-0021-24

In Situ Generation of Planetary Waves in the Mesosphere by Zonally Asymmetric Gravity Wave Drag: A Revisit
Yoo, Ji-Hee; Chun, Hye-Yeong; Song, In-Sun

TWT-132 C2.1-0022-24

Characteristics of mesospheric gravity waves over the Korean Peninsula using specular meteor radar
Kam, Hosik; Kwak, Young-Sil; Song, In-Sun; Yang, Tae-Yong; Song, Byeong-Gwon; Kim, Jeongheon; Lee, Jaewook

Tue, Jul 16, 2024

C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres

Main Scientific Organizer: Haider, Syed A.
Deputy Organizer: Kuroda, Takeshi

Continued 2 (Magnetosphere-Ionosphere of Mars and Venus)

Chair: Barabash, Stanislav
Room: EC1-312

C3.2-0011-24 09:00 - 09:15

Coupling processes between water, dust, and internal waves in the Martian whole atmosphere
Yiğit, Erdal; Medvedev, Alexander S.; Shaposhnikov, Dmitry S.

C3.2-0012-24 09:15 - 09:30

Fluxgate Magnetometer (MAG) onboard Aditya-L1, First Indian Solar Observatory at L1 Point
Yadav, Vipin K; Y., Vijaya; P Tadepalli, Srikar; S., Narendra; Adoni, Abhijit A.; Rai, Vijay S.; D. R., Veeresha; Srivastava, Nandita; Vichare, Geeta Team: LEOS Team p. 453

C3.2-0013-24 09:30 - 09:45

Recent Advances in Science and Future Indian Planetary Exploration Program
Bhardwaj, Anil

C3.2-0014-24 09:45 - 10:00

Understanding Planetary Magnetotail Twisting within the Inner Heliosphere
Dibraccio, Gina; Romanelli, Norberto; Bowers, Charles; Luhmann, Janet G.; Slavin, James; Xu, Shaosui; Halekas, Jasper; Ruhunusiri, Suranga; Collinson, Glyn; Hughes, Andrea; Azari, Abigail; Espley, Jared; Curry, Shannon

C3.2-0015-24 (WITHDRAWN) 10:00 - 10:15

Reprocessing of Pioneer Venus Orbiter ORO Radio Occultation Data
Paetzold, Martin; Hahn, Matthias; Oschlisniok, Janusz; Peter, Kerstin; Tellmann, Silvia

C3.2-0016-24 10:15 - 10:30

Degenerate induced magnetospheres: a new class of the solar wind interactions
Barabash, Stanislav; Zhang, Qi; Holmstrom, Mats; Wang, Xiao-Dong; Futaana, Yoshifumi; Ramstad, Robin; Fowler, Christopher; Nilsson, Hans

Coffee Break

Mars' Aurora

Chair: Haider, Syed A.
Room: EC1-312

C3.2-0017-24 11:00 - 11:30 (solicited)

Unveiling the Mysteries of Discrete Auroras on Mars: Insights from EMM/EMUS Observations during Mars Year 36
Atri, Dimitra; Dhuri, Dattaraj

C3.2-0018-24 11:30 - 11:50 (solicited)

Exploring Mars discrete Aurora with synoptic images and movies from EMM EMUS
Lillis, Robert; Chirakkil, Krishnaprasad; Deighan, Justin; Fillingim, Matthew; Chaffin, Michael; Jain, Sonal; Holsclaw, Gregory M.; Raghuram, Susarla; Almazmi, Hoor; Brain, Dave; Schneider, Nicholas; Xu, Shaosui; Halekas, Jasper; Espley, Jared; Gruesbeck, Jacob; Curry, Shannon

C3.2-0019-24 11:50 - 12:10 (solicited)

Advancing Our Understanding of Martian Proton Aurora Through a Coordinated Multi-Model Comparison Campaign
Hughes, Andrea; Chaffin, Michael; Mierkiewicz, Edwin; Deighan, Justin; Jolitz, Rebecca; Kallio, Esa; Gronoff, Guillaume; Shematovich, Valery; Bisikalo, Dmitry; Halekas, Jasper; Simon Wedlund, Cyril; Schneider, Nicholas; Ritter, Birgit; Girazian, Zachary; Jain, Sonal; Gérard, Jean-Claude; Hegyi, Bradley

C3.2-0020-24 12:10 - 12:30 (solicited)

First results of solar wind measurements from Plasma Analyser Package for Aditya (PAPA) payload onboard Aditya-L1 mission
Thampi, Satheesh; Dhanya, M. B.; Bhaskar, Ankush Team: Vikram Sarabhai Space Centre p. 461

Lunch Break

Ionosphere of Venus and Magnetosphere of Outer Planets

Chair: Lillis, Robert
Room: EC1-312

C3.2-0021-24 15:00 - 15:15

Lightning generated in the Venus' ionosphere from Whistler mode VLF waves
Haider, Syed A.; Jha, Sushma

C3.2-0022-24 15:15 - 15:30

Do Solar Energetic Particle (SEP) events influence the formation of the V0 layer in the Venusian ionosphere?
Tripathi, Keshav R.; Imamura, Takeshi

C3.2-0023-24 15:30 - 16:00 (solicited)

Venus Ionosphere: Current understanding and unresolved questions
Choudhary, Raj Kumar; K M, Ambili; Tripathi, Keshav R.

C3.2-0024-24 16:00 - 16:15

Gravity waves climatology in the upper atmospheres of Mars and Saturn from occultation experiments
Starichenko, Ekaterina; Belyaev, Denis; Medvedev, Alexander S.; Fedorova, Anna; Brown, Zarah; Koskinen, Tommi; Korablev, Oleg; Montmessin, Franck; Trokhimovskiy, Alexander

C3.2-0025-24 16:15 - 16:30

Assessment of Future Earth-Bound Lyman Alpha Observations of the Ice Giants
Joshi, Sushen; Roth, Lorenz; Ivchenko, Nickolay; Gladstone, Randy; Pryor, Wayne; Lamy, Laurent

Coffee Break

Continued (Ionosphere of Venus and Magnetosphere of Outer Planets)

Chair: Atri, Dimitra
Room: EC1-312

C3.2-0026-24 17:00 - 17:30 (solicited)

Magnetospheres of Inner and Outer Planets
Dibraccio, Gina; Gershman, Dan

C3.2-0027-24 17:30 - 17:45

External energy inputs into planetary magnetospheres
Gershman, Dan; Dibraccio, Gina

C3.2-0028-24 17:45 - 18:00

How Auroral Electron Precipitations Contribute to the Formation of Electron Heat Fluxes to the Ionosphere?
Khazanov, George; Kang, Suk-Bin; Glocer, Alex; Fok, Mei-Ching

C3.2-0029-24 18:00 - 18:30 (solicited)

Panel Discussion
Haider, Syed A.; Holmstrom, Mats; Sheel, Varun; Dubinin, Eduard; Barabash, Stanislav; Dibraccio, Gina; Atri, Dimitra; Lillis, Robert; Hughes, Andrea; Choudhary, Raj Kumar; Bhardwaj, Anil; Paetzold, Martin

Tue, Jul 16, 2024

C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres

Main Scientific Organizer: Haider, Syed A.
Deputy Organizer: Kuroda, Takeshi

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-133 C3.2-0030-24

Neutral wind induced plasma transport in regions of magnetic anomalies at Mars
Majeed, Tariq; Bougher, Stephen; Haider, Syed A.; Morschhauser, Achim

TWT-134 C3.2-0031-24

An Unexpected Double-peak Structure in Diurnal Variation of Martian Upper
Le, Huijun; Liu, Libo; Chen, Yiding; Zhang, Ruilong

TWT-135 C3.2-0032-24

Joint Observations of Tianwen-1 and MAVEN on the Martian Bow Shock
Cheng, Long; Wang, Yuming; Lillis, Robert; Ma, Yingjuan; Halekas, Jasper; Langlais, Benoit; Mittelholz, Anna; Xu, Shaosui; Johnson, Catherine; Mitchell, David; Su, Zhenpeng; Zhang, Tielong; Zhang, Aibing; Espley, Jared; Eparvier, Francis G.; Curry, Shannon

TWT-136 C3.2-0033-24

Statistical study of SLAMS at the Martian foreshock
Wong Chan, Tsz Kiu; Karlsson, Tomas; Bergman, Sofia; Trollvik, Henriette

Tue, Jul 16, 2024

C4.2 Development of first-principles and empirical models related to the COSPAR International Reference Atmosphere

Main Scientific Organizer: Bruinsma, Sean
Deputy Organizer: Pilinski, Marcin

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-137 C4.2-0012-24
Short-time calibration for the NRLMSISE00 model below 200 km altitude based on retrieved densities from precise orbit data of the re-entry objects
Yuan, Ying-Ji; Zhang, Ming-Jiang; Wang, Hong Bo; Zhang, Wei; Xiong, Jian Ning

Tue, Jul 16, 2024

D0.1 Overview Session Commission D

Main Scientific Organizer: Vilmer, Nicole
Deputy Organizer: Gil, Agnieszka

Room: CON-205

D0.1-0001-24 15:00 - 15:30 (solicited)
Recent Observations of Solar Energetic Particle Events from Parker Solar Probe and Solar Orbiter
Cohen, Christina

D0.1-0002-24 15:30 - 15:45
Discussion
Vilmer, Nicole

D0.1-0003-24 15:45 - 16:15 (solicited)
Local acceleration of the energetic particles in the magnetosphere of the Earth and outer planets
Horne, Richard

D0.1-0004-24 16:15 - 16:30
Discussion
Vilmer, Nicole

Coffee Break

Room: CON-205

D0.1-0005-24 17:00 - 17:30 (solicited)
4 years of the Sun revealed by the Solar Orbiter mission
Janvier, Miho

D0.1-0006-24 17:30 - 17:45
Discussion
Vilmer, Nicole

D0.1-0007-24 17:45 - 18:15 (solicited)
ISTPNext and the Heliophysics Great Observatories - Motivation, Background, and Current Status
Kepko, Larry

D0.1-0008-24 18:15 - 18:30
Discussion
Vilmer, Nicole

Tue, Jul 16, 2024

D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres

Main Scientific Organizer: Gil, Agnieszka
Deputy Organizer: Engelbrecht, Nicholas Eugene

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-138 D1.1-0033-24
Theoretical investigation of Galactic Cosmic Rays Variation based on the new index of the Power Spectrum Density of the Interplanetary Magnetic Field Turbulence.
Siluszyk, Marek; Iskra, Krzysztof

TWT-139 D1.1-0034-24
New index of the Power Spectrum Density of the Interplanetary Magnetic Field Turbulence in relation with the Rigidity Spectrum of Galactic Cosmic Rays Variation in period 1968 -2020
Iskra, Krzysztof; Siluszyk, Marek

TWT-140 D1.1-0035-24
Modeling of the cosmic rays recurrence during the ascending phase of the solar cycle 25
Gil, Agnieszka; Modzelewska, Renata; Iskra, Krzysztof

TWT-141 D1.1-0036-24
Quantifying Forbush Decrease with a Numerical Model Evaluation
Della Torre, Stefano; Cavallotto, Giovanni; La Vacca, Giuseppe; Gervasi, Massimo

TWT-142 D1.1-0037-24
A numerical study on cosmic proton and electron fluxes decreases in 2017 observed by AMS 02
Yang, Yadi; Luo, Xi; Song, Xiaojian; Xu, Weiwei

TWT-143 D1.1-0038-24
SOLAR ORBITER EPD MEASUREMENTS OF ANOMALOUS COSMIC RAY IN THE INNER HELIOSPHERE FROM 0.3 AU TO 1 AU
Xu, Zigong; Wimmer-Schweingruber, Robert; Kühl, Patrick; Berger, Lars; Pacheco, Daniel; Kollhoff, Alexander; Yang, Liu; Boettcher, Stephan; Gomez-Herrero, Raul; Rodriguez-Pacheco, Javier; Ho, George; Mason, Glenn M.; Cohen, Christina; Leske, Richard

TWT-144 D1.1-0039-24

Spectral Properties and Spectral Variability of 3He-rich Solar Energetic Particle Events
Hart, Samuel; Dayeh, Maher A.; Bucik, Radoslav

TWT-145 D1.1-0040-24

Observations of Energetic Electrons in the HET Instrument aboard Parker Solar Probe during Three Large Solar Energetic Particle Events from 2021 to 2023
Labrador, Allan; Mitchell, Grant; Cohen, Christina; Christian, Eric; De Nolfo, Georgia; Leske, Richard; McComas, David; Rankin, Jamie; Schwadron, Nathan; Szalay, Jamey; Wiedenbeck, Mark

TWT-146 D1.1-0041-24

Solar Energetic Particle Observations and Modeling Results for the September 5, 2022, extreme solar event
Kouloumvakos, Athanasios; Wijsen, Nicolas; Hill, Matthew; Afanasiev, Alexandr; Lario, David; Jebaraj, Immanuel; Mason, Glenn M.; Ho, George; Giacalone, Joe; Li, Gang; Ding, Zheyi; Chen, Xiaohang; Vourlidas, Angelos; Paouris, Evangelos; Riley, Pete; Linker, Jon; Cohen, Christina; Vainio, Rami; Rouillard, Alexis; McComas, David; Rodriguez-Pacheco, Javier; McNutt, Ralph; Mitchell, Donald; Kühl, Patrick; Wimmer-Schweingruber, Robert

TWT-147 D1.1-0042-24

The alignment of STEREO-A and Earth: A unique opportunity to improve solar energetic proton forecasting capabilities
Heber, Bernd; Jensen, Stefan; Hörlöck, Malte; Kollhoff, Alexander; Kühl, Patrick; Posner, Arik; Malandraki, Olga; Berdermann, Jens; Sierks, Holger; Martens, Janna; Banys, Daniela; Dröge, Henrik

TWT-148 D1.1-0043-24

Numerical Simulation of Galactic Cosmic-Rays during the Heliopause Crossing for Voyager 2
Guo, Xiaocheng; Wang, Chi

TWT-149 D1.1-0044-24

MHD Simulations of the Effect of Anomalous Cosmic-Rays on the Rayleigh-Taylor Instability at the Heliopause
Zhou, Yucheng; Guo, Xiaocheng

TWT-150 D1.1-0045-24

Drift Motion of Energetic Charged Particles Subject to Turbulence near the Heliospheric Current Sheet
Promfu, Tatphicha; Ruffolo, David; Chuychai, Piyanate; Sáiz, Alejandro

TWT-151 D1.1-0046-24

Radial evolution of quiet-time superhalo electrons
Yang, Liu; Gu, Chaoran; Heidrich-Meisner, Verena; Wang, Linghua; Kollhoff, Alexander; Wimmer-Schweingruber, Robert

TWT-152 D1.1-0047-24

Charge particles acceleration in the near resonance regime
Shkevov, Rumen; ***Mishev, Alexander***; Mishev, Alexander; Zolnikova, Nadezhda; Mikhailovskaya, Ludmila

TWT-153 D1.1-0048-24

Cosmic ray transport in compressible turbulence
Yan, Huirong

Tue, Jul 16, 2024

D1.2 Large Scale Structure of Heliosphere and its Physical Drivers

Main Scientific Organizer: Opher, Merav
Deputy Organizer: Dialynas, Konstantinos

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-154 D1.2-0022-24

Science opportunities for IMAP-Lo observations of interstellar neutral atoms
Kubiak, Marzena A.; Bzowski, Maciej; Schwadron, Nathan; Möbius, Eberhard; Swaczyna, Paweł

TWT-155 D1.2-0023-24

Theseus: an Advanced Method for Rendering IBEX-Hi ENA Sky Maps
Reisenfeld, Dan; Osthus, Dave; Weaver, Brian; Janzen, Paul; Zirnstein, Eric

Tue, Jul 16, 2024

D1.3 Magneto-plasma Structures, Streams and Flows in the Heliosphere

Main Scientific Organizer: Khabarova, Olga
Deputy Organizer: Malandraki, Olga

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-156 D1.3-0036-24

Properties of current sheets in interplanetary coronal mass ejections and stream interaction regions
Treves, Timofei; Khabarova, Olga; Kislov, Roman

TWT-157 D1.3-0037-24

A connection of neutral magnetic lines with formation and stability of solar magnetic tornadoes
Nikitin, Ilia; Blumenau, Mark; Vorobev, Dmitrii

TWT-158 D1.3-0038-24

An analysis of observed deviations of radial profiles of the solar wind speed and temperature from theoretical predictions
Antsiferova, Uliana; Khabarova, Olga; Kislov, Roman

TWT-159 D1.3-0039-24

SINP MSU Unified Interplanetary Coronal Mass Ejection Catalog
Shiryaev, Anton; ***Kaportseva, Ksenia***; Kaportseva, Ksenia; Shugay, Yulia; Kalegaev, Vladimir

TWT-160 D1.3-0040-24

COMPARISON OF THE MAGNETIC MOMENT OF THE SUN AND THE HELIOSPHERIC CURRENT SHEET
Kislov, Roman

TWT-161 D1.3-0041-24

Polytropic analysis of interplanetary shocks observed by Solar Orbiter
Ioannou, Charalambos; Nicolaou, Georgios; Owen, Christopher J.; Trotta, Domenico

TWT-162 D1.3-0042-24

Case studies of properties of high-latitude coronal mass ejections observed by the Ulysses spacecraft at 2-3 AU
Samara, Nuran; Reshef, Hadar; Tishler, Noam; Khabarova, Olga; Price, Colin

TWT-163 D1.3-0043-24

A POSSIBLE MECHANISM OF FORMATION OF PLASMA DISTRIBUTIONS IN MAGNETIC FLUX TUBES
Malova, Helmi; Popov, Viktor; Antonova, Elizaveta; Zelenyi, Lev

TWT-164 D1.3-0044-24

Unexpected energetic particle observations near the Sun by Parker Solar Probe and Solar Orbiter
Cohen, Christina; Malandraki, Olga; Giacalone, Joe; Mitchell, John; Chhiber, Rohit; McComas, David; Rodriguez-Pacheco, Javier; Wimmer-Schweingruber, Robert; Ho, George; Janitzek, Nils P.; Desai, Mihir

Tue, Jul 16, 2024

D1.4 Suprathermal and Pickup Ions Throughout the Heliosphere

Main Scientific Organizer: Hill, Matthew
Deputy Organizer: Dialynas, Konstantinos

PUIs, ACRs and ENAs in the heliosphere

Chair: Dialynas, Konstantinos
Room: CON-104

D1.4-0001-24 09:00 - 09:20

Pickup ions in the outer solar system
Coates, Andrew; Jones, Geraint; Radulescu, Cristian

D1.4-0002-24 (WITHDRAWN) 09:20 - 09:35

Helium pickup ion velocity distributions to probe and evaluate local physical processes
Ogasawara, Keiichi; Kucharek, Harald; Dayeh, Maher A.; Ebert, Robert; Klecker, Berndt

D1.4-0003-24 09:35 - 09:55

Energetic neutral atoms as a tool for the heliospheric boundary exploration: comparison of the Moscow model simulations with IBEX data
Baliukin, Igor; Izmodenov, Vladislav; Alexashov, Dmitry

D1.4-0004-24 09:55 - 10:15

On the disappearance of anomalous cosmic rays near solar maximum
Strauss, Du Toit; Rankin, Jamie

D1.4-0005-24 10:15 - 10:30

Explaining lunar regolith volatile abundances from solar wind and Earth atmosphere material implanted via magnetotail plasma
Paramanick, Shubhonkar; Blackman, Eric; Carroll-Nellenback, Jonathan; Tarduno, John

Tue, Jul 16, 2024

D1.5 Turbulence in the Heliosphere from the Solar Corona to the Very Local Interstellar Medium

Main Scientific Organizer: Fraternale, Federico

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-165 D1.5-0011-24

1/f Noise in Synthetic Data and 1 au Solar Wind Observations
Wang, Jiaming; Matthaeus, William; Pecora, Francesco

TWT-166 D1.5-0012-24

On the properties of the Alfven transition zone separating the solar corona and the solar wind
Chhiber, Rohit; Pecora, Francesco; Usmanov, Arcadi; Roy, Sohom; Matthaeus, William; Cranmer, Steven; Goldstein, Melvyn

TWT-167 D1.5-0013-24

The turbulence-driven instabilities in the flaring coronal loop helical magnetic/plasma structure evolution
Zhu, Bojing

TWT-168 D1.5-0014-24

Wave activity at switchback boundaries in the young solar wind
Choi, Kyung-Eun; Agapitov, Oleksiy; Bizien, Nina; Froment, Clara; Dudok De Wit, Thierry

Tue, Jul 16, 2024

D1.6 Understanding and Predicting Solar Energetic Particle Events Across the Heliosphere

Main Scientific Organizer: Wijsen, Nicolas

Room: CON-104

D1.6-0001-24 11:00 - 11:30 (solicited)

SEP Forecasting from the Perspective of NASA's Space Radiation Analysis Group
Whitman, Kathryn; Quinn, Philip; Barzilla, Janet; Egeland, Ricky

D1.6-0002-24 11:30 - 11:45

Forecasting for Energetic Events into the 4-pi Heliosphere
Leka, K D; Wagner, Eric; Jain, Kiran; Hamada, Amr; Upton, Lisa A.; Whitman, Kathryn; Jha, Bibhuti Kumar

D1.6-0003-24 (WITHDRAWN) 11:45 - 12:00

Short-term Classification of Solar Energetic Particle Events Using Interval-based Time Series Models
Rotti, Sumanth; Martens, Petrus

D1.6-0004-24 12:00 - 12:15

Predicting Solar Energetic Particle Event Occurrences Using Explainable AI
Kato, Yuta; Kusano, Kanya; Mitsuda, Chihiro; Ishihara, Yasuhide

D1.6-0005-24 12:15 - 12:30

Investigate the Effect of Shock Complexity on Gradual SEPs using SEPCaster Model
Jin, Meng; Li, Gang; Ding, Zheyi; Sawant, Sailee; Mays, M. Leila

Coffee Break

Room: CON-104

D1.6-0006-24 09:00 - 09:30 (solicited)

Forecast of Solar Energetic Particles in the CLEAR Space Weather Center of Excellence
Zhao, Lulu; Gombosi, Tamas Team: CLEAR p. 449

D1.6-0007-24 09:30 - 09:45

Cannibalistic CMEs and their effects on Solar Energetic Particles: Modelling capabilities and challenges for the future of space exploration.
Niemela, Antonio Esteban; Wijsen, Nicolas; Aran, Angels; Rodriguez, Luciano; Magdalenic, Jasmina; Poedts, Stefaan

D1.6-0008-24 09:45 - 10:00

Modeling energetic proton transport in a corotating interaction region: An energetic particle event observed by STEREO-A from 21 to 24 August 2016
Shen, Fang; Tao, Xinyi; Wei, Wenwen; Luo, Xi; Feng, Xueshang

D1.6-0009-24 10:00 - 10:15

Incorporating model uncertainties in SEP transport models
Strauss, Du Toit

D1.6-0010-24 10:15 - 10:30

Exploring energetic particle transport in the solar corona with the novel COCONUT+PARADISE model
Husidic, Edin; Wijsen, Nicolas; Poedts, Stefaan; Vainio, Rami; Brchnelova, Michaela; Linan, Luis

Tue, Jul 16, 2024

D1.6 Understanding and Predicting Solar Energetic Particle Events Across the Heliosphere

Main Scientific Organizer: Wijsen, Nicolas

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-169 D1.6-0021-24

Modelling two energetic storm particle events observed by Solar Orbiter
Ding, Zheyi; Li, Gang; Mason, Glenn M.; Poedts, Stefaan; Kouloumvakos, Athanasios; Ho, George; Wijsen, Nicolas; Wimmer-Schweingruber, Robert; Rodriguez-Pacheco, Javier

TWT-170 D1.6-0022-24

Modelling solar energetic particles: insights and challenges from PARADISE and PiC Simulations
Wijsen, Nicolas; Bacchini, Fabio; Poedts, Stefaan

TWT-171 D1.6-0023-24

Investigating High Energy Solar Energetic Particles using a miniature ultra-sensitive FUV spectrometer in future Heliophysics Space explorations
Hosseini, Sona; ***Vourlidas, Angelos***; Vourlidas, Angelos; Strachan, Leonard; Paxton, Larry; Nikzad, Shouleh

D1.6-0024-24 (WITHDRAWN)

The Compact Electron Proton Spectrometer – A space weather early warning instrument based on a CdTe hybrid pixel detector
George, Stuart; Campbell-Ricketts, Thomas; Fry, Dan; Kroupa, Martin; Whitman, Kathryn; Semones, Edward J.

Tue, Jul 16, 2024

D1.7 Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays

Main Scientific Organizer: Ruffolo, David
Deputy Organizer: Munakata, Kazuoki

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-173 D1.7-0018-24

Simulations of Capture-Gated Neutron Spectroscopy for Measuring the Cosmic Neutron Energy Spectrum on Earth's Surface
Park, Hyeoungwoo; Kang, Sinchul; Kim, Jungho; Kim, Joong Hyun; Park, Hyeonseo; Yoon, Young Soo

TWT-174 D1.7-0019-24

Development of cosmic neutron spectrometer using He-3 detectors
Yoon, Young Soo; Kang, Sinchul; Kim, Joong Hyun; Kim, Jungho; Park, Hyeonseo; Park, Hyeoungwoo

TWT-175 D1.7-0020-24

Monte Carlo Simulation of New Boron Trifluoride Proportional Tube for the NM64 Neutron Monitor
Duangjai, Budsayarat; Nuntiyakul, Waraporn; Seripienlert, Achara; Pagwhan, Audcharaporn; Khamphakdee, Sidarat; Sáiz, Alejandro; Ruffolo, David; Evenson, Paul

TWT-176 D1.7-0021-24

Neutron Propagation Time Distribution Measured by Various Neutron Monitor Counters Relative to Direction-Tracked Charged Atmospheric Secondaries
Amratisha, Koth; Chaiwongkhot, Kullapha; Puprasit, Kunlanan; Lakronwat, Jidapa; Manuthasna, Shariff; Janmaneeporn, Achariyaporn; Ruffolo, David

TWT-177 D1.7-0022-24

Tracking the heliospheric modulation of cosmic rays to correct albedo epithermal neutrons for hydrological research
Hertle, Lasse; Sato, Tatsuhiko; Zacharias, Steffen; Schrön, Martin

TWT-178 D1.7-0023-24

The updated CRAC:CRII and CRAC:DOMO models: applications and verification
Mishev, Alexander; Koldobskiy, Sergey; Larsen, Nicholas; Usoskin, Ilya

TWT-179 D1.7-0024-24

Exploring the Differential Spectra of Galactic, Solar, and Anomalous Cosmic Rays: Theoretical Insights into Atmospheric Penetration
Velinov, Peter; Mishev, Alexander; Asenovski, Simeon; Mateev, Lachezar

TWT-180 D1.7-0025-24

Cosmic ray intensity variation of Forbush decrease dependent on propagation direction of interplanetary coronal mass ejection
Oh, Suyeon; Jung, Jongil

TWT-181 D1.7-0026-24

Time profile and anisotropy of the 2021 November 4 Forbush decrease: relating ICME characteristics to space- and ground-based particle observations
Benella, Simone; Laurenza, Monica Team: coauthors: p. 449

TWT-182 D1.7-0027-24

Study on the SEP events and their association with ground level enhancements using ACE/SIS data
Jung, Jongil; Oh, Suyeon; Kwak, Young-Sil; Yi, Yu

Tue, Jul 16, 2024

D2.2-E3.2 Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects

Main Scientific Organizer: Dumbovic, Mateja
Deputy Organizer: Janvier, Miho

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-183 D2.2-0035-24

EUV, UV & X-ray Irradiance Variability over Solar Cycle 24 and Their Impacts on Earth's Climate and Space Weather
Rangaiah, Kariyappa; Masuda, Satoshi; Kusano, Kanya; Imada, Shinsuke; Zender, Joe; Damé, Luc; DeLuca, Edward

TWT-184 D2.2-0036-24

Radial Evolution of the Solar Wind Ions Observed by Parker Solar Probe
Kim, Hee-Eun; Lee, Ensang; Parks, George

TWT-185 D2.2-0037-24

Switchbacks and Associated Magnetic Holes Observed near the Alfvén Critical Surface
Rasca, Anthony; Farrell, William; Gruesbeck, Jacob; Macdowall, Robert; Bale, Stuart; Kasper, Justin

Tue, Jul 16, 2024

D2.3-E3.3 Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies

Main Scientific Organizer: Büchner, Jörg
Deputy Organizer: Hoshino, Masahiro

Room: CON-102

D2.3-0029-24 09:00 - 09:30 (solicited)
How Important is Magnetic Reconnection for Energy Dissipation in Turbulent Plasmas? - Magnetospheric Multiscale Observations from Earth's Magnetosheath
Stawarz, Julia; Quijia Pilapaña, Paulina; Sharma Pyakurel, Prayash; Bessho, Naoki; Gingell, Imogen; Phan, Tai; Shay, Michael; Lewis, Harry

D2.3-0030-24 09:30 - 09:45
Current sheet formation and reconnection in turbulent plasmas
Büchner, Jörg; Jain, Neeraj; Munoz, Patricio

D2.3-0031-24 09:45 - 10:00
Fast tearing mode driven by demagnetized electrons
Zelenyi, Lev; Tsareva, Olga; Leonenko, Makar; Grigorenko, Elena; Malova, Helmi; Popov, Viktor

D2.3-0032-24 10:00 - 10:30 (solicited)
Auroral spiral formation through magnetic reconnection in the auroral acceleration region
Liu, Yi-Hsin; Huang, Kai; Lu, Quanming; Lynch, Kristina; Hesse, Michael; Vaivads, Andris; Hu, Zejun; Yang, Huigen

Coffee Break

Room: CON-102

D2.3-0033-24 11:00 - 11:20 (solicited)
Fundamental physics of magnetic reconnection unraveled by spiral CT scan
Fu, Huishan; Wang, Zhe; Cao, Jinbin

D2.3-0034-24 11:20 - 11:35
High-speed electron flows in the terrestrial magnetotail
Li, Wenya; Liu, Huijie; Tang, Bin-Bin; Wang, Chi

D2.3-0035-24 11:35 - 11:50
Development of electron streaming instability in guide-field magnetic reconnection: MMS observations
Tang, Bin-Bin; Li, Wenya; Wang, Chi

D2.3-0036-24 11:50 - 12:20 (solicited)
Unveiling plasma energization and energy transport in the Earth's Magnetospheric System through multi-scale observations: the science of the Plasma Observatory mission
Retino, Alessandro; Marcucci, Maria Federica; Amano, Takanobu; Angelopoulos, Vassilis; Bale, Stuart; Berthomier, Matthieu; D'amicis, Raffaella; De Keyser, Johan; Derz, Uwe; Dimmock, Andrew; Dunlop, Malcolm; Forsyth, Colin; Fraenz, Markus; Fu, Huishan; Galli, Andre; Genot, Vincent; Griton, Léa; Kauristie, Kirsti; Khotyaintsev, Yuri; Kistler, Lynn; Khotyaintsev, Yuri; Kucharek, Harald; Hietala, Heli; Issautier, Karine; Lavraud, Benoit; Le Contel, Olivier; Mann, Ian; Matteini, Lorenzo; McWilliams, Kathryn; Maksimovic, Milan; Nakamura, Rumi; Norgren, Cecilia; Palmroth, Minna; Panov, Evgeny; Pezzi, Oreste; Plaschke, Ferdinand; Rae, Jonathan; Rothkaehl, Hanna; Roussos, Elias; Saito, Yoshifumi; Soucek, Jan; Stankov, Anamarija; Stawarz, Julia; Steller, Manfred; Simionescu, Aurora; Taylor, Matthew; Yamauchi, M.; Vainio, Rami; Vaivads, Andris; Valentini, Francesco; Wimmer-Schweingruber, Robert Team: The Plasma Observatory Science Team p. 460

Tue, Jul 16, 2024

D2.3-E3.3 Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies

Main Scientific Organizer: Büchner, Jörg
Deputy Organizer: Hoshino, Masahiro

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-186 D2.3-0037-24
QUASI-TWO-DIMENSIONALITY OF THREE-DIMENSIONAL, MAGNETICALLY DOMINATED, DECAYING TURBULENCE
Dwivedi, Shreya; Anandavijayan, Chandranathan; Bhat, Pallavi

Tue, Jul 16, 2024

D2.5-E3.5 Impact of the Inhomogeneous Solar Corona and Solar wind on CME Evolution

Main Scientific Organizer: Jang, Soojeong
Deputy Organizer: Jin, Meng

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-187 D2.5-0021-24

Acceleration Processes of Solar Energetic Particles in the heliosphere inferred from Their Onset Delay Time
Lee, Hae-In; Kwon, Ryun Young; Lee, Dae-Young

TWT-188 D2.5-0022-24

The Energy Distribution of the 2022 June 13 Solar Energetic Particle Event Accelerated by CME-driven Shock in Interplanetary Space
Yoo, Ji-Hyeon; Kwon, Ryun Young; Lee, Dae-Young

TWT-189 D2.5-0023-24

The Variability of Time-Intensity Profiles of Solar Energetic Particles during the Transition of Shocks from the Corona to Interplanetary Space
Lee, Hwanhee; Kwon, Ryun Young

TWT-190 D2.5-0024-24

Utilizing a Deep Learning Coronal Density Tomography method for Density Inference at 1AU
Jang, Soojeong; Kwon, Ryun Young; Moon, Yong-jae

D2.5-0025-24 (WITHDRAWN)

Forces acting on CMEs
Subramanian, Prasad

Tue, Jul 16, 2024

D3.1 Highlights of Magnetospheric Plasma Physics

Main Scientific Organizer: Nykyri, Katariina
Deputy Organizer: Zelenyi, Lev

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-191 D3.1-0020-24

Analysis of Energy Conversion at the Kelvin-Helmholtz Instability in Thin Shear Layers using PIC Simulations
Choi, Eunjin; Hwang, Kyoung-Joo; Burch, James; Dokgo, Kyunghwan; Min, Kyoung Wook

TWT-192 D3.1-0021-24

Wave activities around a crater-shaped flux rope in nonlinear Kelvin-Helmholtz vortex
Dokgo, Kyunghwan; Hwang, Kyoung-Joo; Burch, James; Yoon, Peter; Choi, Eunjin

TWT-193 D3.1-0022-24

Effects of Magnetic Reconnection Dynamics in Earth's Cusp: Investigating Plasma Filaments and Flux Transfer Events using Cluster Data
Agarwala, Nitya; Poh, Gangkai; Slavin, James; Le, Guan; Chen, Yuxi; Sun, Weijie

TWT-194 D3.1-0023-24

Solar wind structures as a source of magnetosheath transients
Xirogiannopoulou, Niki; Goncharov, Oleksandr; Safrankova, Jana; Nemecek, Zdenek

TWT-195 D3.1-0024-24

Characteristics of hectometric continuum radiation in near-Earth plasma
Chernyshov, Alexander; Dorofeev, Daniil; Mogilevsky, Mikhail; Kolpak, Valeriia; Chugunin, Dmitriy

TWT-196 D3.1-0025-24

Magnetospheric Ducts for Whistlers
Streltsov, Anatoly; Nejad, Salman

Tue, Jul 16, 2024

D3.2 Cross-scale Coupling and Multi-point Observations in the Solar Wind and Magnetosphere

Main Scientific Organizer: Stepanova, Marina

Chair: Nykyri, Katariina
Room: CON-103

D3.2-0011-24 09:00 - 09:30

Evolution of the Magnetotail Associated with Substorm Expansion Onsets: Revisiting the Onset Timing Issue
Miyashita, Yukinaga; Ieda, Akimasa; Talha, Madeeha; Machida, Shinobu

D3.2-0012-24 09:30 - 09:45

The Mysterious Magnetospheric Response to Sudden Solar Wind Pressure Enhancements
Sinha, Shipra; Fok, Mei-Ching; Sibeck, David

D3.2-0013-24 09:45 - 10:00

Statistical properties of the auroral kilometric radiation measured on the WIND satellite
Kolpak, Valeriia; Mogilevsky, Mikhail; Chugunin, Dmitriy; Chernyshov, Alexander; Moiseenko, Irina; Riazantseva, Maria

D3.2-0014-24 10:00 - 10:15

Periodicities in Solar Microwave Emission during Solar Cycle 20-24.
Aroori, Mahender

D3.2-0015-24 10:15 - 10:30

NOAA's SWFO Program Launching in 2024: Science Objectives and Data Products
Vassiliadis, Dimitrios

Coffee Break

Chair: Hwang, Kyoung-Joo
Room: CON-103

D3.2-0016-24 11:00 - 11:30
Unraveling Unexpected Solar Wind-Magnetosphere-Ionosphere Coupling: A Case Study of Extreme Subauroral Ion Drifts When the Solar Wind Disappeared
Gallardo-Lacourt, Bea; Nishimura, Yukitoshi; Kepko, Larry; Spanswick, Emma; Donovan, Eric; Gillies, Deborah; Knudsen, David; Burchill, Johnathan; Pinto, Victor; Kuzub, Jeremy

D3.2-0017-24 11:30 - 11:45
The QP emissions with increasing period observed on the Arase satellite and Lovozero station
Belakhovsky, Vladimir; Kalishin, Alexey; Pilgaev, Sergey

D3.2-0018-24 11:45 - 12:00
Stability and transport in the turblent plasma sheet
Stepanova, Marina; Espinoza, Cristobal; Julio-Garrido, Manuel; Antonova, Elizaveta

D3.2-0019-24 12:00 - 12:30
Poster highlight for D3.2 sections
Stepanova, Marina

Tue, Jul 16, 2024

D3.2 Cross-scale Coupling and Multi-point Observations in the Solar Wind and Magnetosphere

Main Scientific Organizer: Stepanova, Marina

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-197 D3.2-0020-24
The Electron Plasma Camera for the Plasma Observatory ESA mission candidate
Berthomier, Matthieu; Leblanc, Frédéric; Techer, Jean-Denis; Alata, Yvon; Retino, Alessandro; Le Contel, Olivier; Forsyth, Colin; Brockley Blatt, Christine

D3.2-0021-24 (WITHDRAWN)
New small plasma spectrometers for ESA missions in Earth orbit
Fraenz, Markus; Saito, Yoshifumi; Krupp, Norbert; Roussos, Elias; Retino, Alessandro; Marcucci, Maria Federica; Fischer, Henning; Meyer, Frank

TWT-199 D3.2-0022-24
Joint analysis with Swarm and ground stations: ionospheric current system and geomagnetically induced currents
Zhang, Chunming; Dunlop, Malcolm; Yang, Junying; Xiong, Chao; Tan, Xin; Wei, Dong; Blagau, Adrian; Marghitu, Octav; Constantinescu, Vlad; Kervalishvili, Guram; Dong, Xiangcheng

TWT-200 D3.2-0023-24
Dst Index Forecasting Method during Geomagnetic Storm Based on Global Magnetosphere MHD Model
Yue, Jiawen; Guo, Xiaocheng

TWT-201 D3.2-0024-24
A methodology for the Kp Index calculation based on the global MHD simulation of earth's magnetosphere
Xi, Xinyue; Guo, Xiaocheng

TWT-202 D3.2-0025-24
Preliminary Analysis of Local K-Index Variation on the Magnetic Equator in the Southern Region of Thailand
Kaewthongrach, Rungnapa; Bumrungkit, Acharaporn; Myint, Lin Min Min; Channumsin, Sittiporn; Sutthana, Jaruwan; Puttasuwan, Keerati; Perwitasari, Septi; Nishioka, Michi; Hozumi, Kornyanat

TWT-203 D3.2-0026-24
Drivers of Extreme Geomagnetic Field Variations: Localized Events
Ngwira, Chigomezyo

Tue, Jul 16, 2024

D3.3 Origin of Non-thermal Distributions in Space Plasmas and their Role in Wave Generation and Heating / Acceleration of Particles

Main Scientific Organizer: Kourakis, Ioannis
Deputy Organizer: Lakhina, Gurbax Singh

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-204 D3.3-0019-24
Mode conversion of electromagnetic waves in stratified, cold, magnetized plasmas with arbitrary directional magnetic field
Kim, Seulong; Kim, Kihong

Tue, Jul 16, 2024

D3.4 Particle Transport Acceleration and Loss in the Earth and Planetary Magnetospheres

Main Scientific Organizer: Kim, Kyung-Chan
Deputy Organizer: Usanova, Maria

Chair: Tu, Weichao
Room: CON-101

D3.4-0001-24 09:00 - 09:15

Comparative Magnetospheric Processes: The Impact of Whistler-mode Waves on Energetic Electron Dynamics in Earth's and Jupiter's Magnetosphere
Li, Wen; Ma, Qianli; Shen, Xiaochen

D3.4-0002-24 09:15 - 09:30

Investigation of ion flux response to magnetic dipolarization events in the Jovian magnetotail using Juno/JEDI data
Moutsiana, Georgia; Daglis, Ioannis; Clark, George; Gkioulidou, Matina; Daglis, Ioannis A.; Mauk, Barry

D3.4-0003-24 09:30 - 09:45 (solicited)

Acceleration to ultra-relativistic energies by a VERB-3D code coupled to a data-assimilative plasmaphere code VERB-CS.
Shprits, Yuri; Haas, Bernhard; Wang, Dedong

D3.4-0004-24 09:45 - 10:00

Comparison of observed radiation belt killer electron energy spectra with theoretical predictions
Summers, Danny

D3.4-0005-24 10:00 - 10:15

Radial diffusion and its impact on radiation belt electrons
Katsavrias, Christos; Daglis, Ioannis; Aminalragia-Giamini, Sigiava; Thanasoula, Konstantina; Nasi, Afroditi; Papadimitriou, Constantinos

D3.4-0006-24 10:15 - 10:30

ULF waves in the Earth's magnetosphere: spatial distribution, polarization and geomagnetic conditions
Rubtsov, Aleksandr; Nose, Masahito; Matsuoka, Ayako; Kasahara, Yoshiya; Kumamoto, Atsushi; Tsuchiya, Fuminori; Hori, Tomoaki; Teramoto, Mariko; Shinohara, Iku; Miyoshi, Yoshizumi

Coffee Break

Chair: Li, Wen
Room: CON-101

D3.4-0007-24 11:00 - 11:15

Accuracy of the Guiding Center ExB drift in crossed non-uniform magnetic and electric fields
Kabin, Konstantin

D3.4-0008-24 (WITHDRAWN) 11:15 - 11:30

Spatial-energy dependencies of maximum electron fluxes of the outer radiation belt during geomagnetic activity
Gruzdov, Danil; Kalegaev, Vladimir; Vlasova, Natalia; Ivanova, Alexandra

D3.4-0009-24 11:30 - 11:45

The Effect of Coupling Data-assimilative Plasmasphere Simulations to Ring Current and Radiation Belt Models
Haas, Bernhard; Shprits, Yuri; Wang, Dedong; Himmelsbach, Julia; Szabo-Roberts, Matyas; Castillo Tibocha, Angelica Maria

D3.4-0010-24 11:45 - 12:00

Revamping the precipitation model of energetic electrons based on realistic response functions of POES/MEPED detectors
Tu, Weichao; Li, Zhi Gu; Selesnick, Richard

D3.4-0011-24 12:00 - 12:15

Energetic electron precipitation of different mechanisms from the outer radiation belt during geomagnetic disturbances: intensity dynamics and spectral features
Ivanova, Alexandra; Kalegaev, Vladimir; Vlasova, Natalia; Gruzdov, Danil

D3.4-0012-24 12:15 - 12:30

Energetic electrons acceleration and loss in the Earth's outer radiation belt during prolonged auroral activity
Kalegaev, Vladimir; Bazilevskaya, Galina; Demekhov, Andrei; Gruzdov, Danil; Ivanova, Alexandra; Vlasova, Natalia; Yahnina, Tatyana

Tue, Jul 16, 2024

D3.4 Particle Transport Acceleration and Loss in the Earth and Planetary Magnetospheres

Main Scientific Organizer: Kim, Kyung-Chan
Deputy Organizer: Usanova, Maria

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-205 D3.4-0025-24

Nonlinear Wave-particle Interaction Effects on Radiation Belt Electron Dynamics in October 9, 2012 storm
Kondrashov, Dmitri; Drozdov, Alexander; Shprits, Yuri

TWT-206 D3.4-0026-24

Marginal condition of electron temperature anisotropy instability in the inner magnetosphere observed by Arase (ERG)
Shinohara, Iku; Yang, Jingxuan; Kazama, Yoichi; Wang, Shiang-Yu; Jun, Chae-Woo; Kasahara, Satoshi; Yokota, Shoichiro; Keika, Kunihiro; Hori, Tomoaki; Asamura, Kazushi; Mitani, Takefumi; Matsuoka, Ayako

TWT-207 D3.4-0027-24

Acceleration efficiency of VLF and ULF waves on electrons of the outer Van Allen belt
Daglis, Ioannis A.; Nasi, Afroditi; Katsavrias, Christos; Aminalragia-Giamini, Sigiava; Dahmen, Nour; Brunet, Antoine; Papadimitriou, Constantinos; Bourdarie, Sebastien; Santolik, Ondrej; Sandberg, Ingmar; Darrouzet, Fabien; Kieokaew, Rungployphan; Miyoshi, Yoshizumi; Li, Wen; Balasis, Georgios; Mitani, Takefumi; Shinohara, Iku; Takashima, Takeshi; Hori, Tomoaki

TWT-208 D3.4-0028-24

Analysis of Low-Energy Ion Flux Enhancement Associated with Negative Spacecraft Potential in the Plasmasphere's Eclipse Region
Lee, Junhyun; Kim, Khan-Hyuk; Lee, Ensang; Jin, Ho; Kim, Hee-Eun

TWT-209 D3.4-0029-24

Comprehensive Modeling of Fast Electron Dropout in Earth's Outer Radiation Belt During the 31 December 2016 Storm
Huang, Jinbei; Lyu, Xingzhi; Tu, Weichao; Selesnick, Richard; Chen, Lunjin

D3.4-0030-24 (WITHDRAWN)

Phase Space Density Analysis of a Rapid Radiation Belt Enhancement Event with Reoccurring MeV Electron Injections and Higher L-region Losses
Kim, Hee-Jeong; Kim, Kyung-Chan; Lyons, Larry; Lee, Dae-Young

TWT-211 D3.4-0031-24

Observations from HEPD and MEPD onboard FY-3E satellite
Wang, chunqin

D3.4-0032-24 (WITHDRAWN)

Electron Precipitation into the South Atlantic Anomaly During Geomagnetic Storms
Grishina, Alina; Shprits, Yuri; Drozdov, Alexander; Wang, Dedong; Szabo-Roberts, Matyas; Haas, Bernhard

Tue, Jul 16, 2024

D3.5 Role of Mesoscale Coupling as the Driver of System Level Storm and Substorm Dynamics in Geospace

Main Scientific Organizer: Grigorenko, Elena
Deputy Organizer: Gkioulidou, Matina

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-213 D3.5-0014-24

Characteristics of field and plasma variations in the source region of substorm onset: Arase observation
Chen, Liwei; Shiokawa, Kazuo; Miyoshi, Yoshizumi; Oyama, Shin-ichiro; Jun, Chae-Woo; Hosokawa, Keisuke; Kazama, Yoichi; Wang, Shiang-Yu; Tam, Sunny W. Y.; Chang, Tzu-Fang; Wang, Bo-Jhou; Asamura, Kazushi; Kasahara, Satoshi; Yokota, Shoichiro; Hori, Tomoaki; Keika, Kunihiro; Kasaba, Yasumasa; Kumamoto, Atsushi; Tsuchiya, Fuminori; Shoji, Masafumi; Kasahara, Yoshiya; Matsuoka, Ayako; Shinohara, Iku; Nakamura, Satoko; Imajo, Shun

TWT-214 D3.5-0015-24

Current layer instabilities in the global hybrid-Vlasov simulation of the Earth's magnetosphere
Zaitsev, Ivan; Cozzani, Giulia; Alho, Markku; Horaites, Konstantinos; Zhou, Hongyang; Pfau-Kempf, Yann; Hoilijoki, Sanni; Ganse, Urs; Battarbee, Markus; Papadakis, Konstantinos; Turc, Lucile; Palmroth, Minna

TWT-215 D3.5-0016-24

A Proposed Regional Predictive Geospace/Geoelectric Field Product
Rasca, Anthony; Singer, Howard; Balch, Christopher; Guerra, Jordan; Camporeale, Enrico; Millward, George

TWT-216 D3.5-0017-24

Multi-case study of particle distribution functions associated with ion cyclotron waves at ballooning-interchange heads
Panov, Evgeny; Hosner, Martin; Baumjohann, Wolfgang; Nakamura, Rumi; Sergeev, Viktor

Tue, Jul 16, 2024

D3.6 CubeSat and Small Satellite Technology Addressing Magnetospheric Challenges

Main Scientific Organizer: Lee, Jaejin
Deputy Organizer: Hwang, Kyoung-Joo

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-217 D3.6-0013-24

Concept Design of Cold Gas Thruster for the Korean Space SCANeR
Song, Hosub; Lee, Daehee; Lee, Jaejin; Shin, Goo-Hwan; Jang, Il-Young

TWT-218 D3.6-0014-24

Concept Study and Initial Design of Deployer for Space SCANeR
Lee, Hojin; Sohn, Jongdae; Hwang, Junga; Moon, Bongkon; Lee, Daehee; Lee, Jaejin

TWT-219 D3.6-0015-24
Simulation of spacecraft charging based on 3U Cubesat in LEO environment
Na, Go Woon; Seon, Jongho; Lee, Jaehyeok; Lee, Dong-Hun

TWT-220 D3.6-0016-24
New particle detector for radiation belt small satellite fleet from refurbished flight-spares
Hajdas, Wojtek; Xiao, Hualin; Marcinkowski, Radoslav; Sarris, Theodore; Falanga, Maurizio

Tue, Jul 16, 2024

D3.7 Machine Learning and Data Sciences

Main Scientific Organizer: Shprits, Yuri
Deputy Organizer: Balasis, Georgios; Wing, Simon

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

D3.7-0020-24 (WITHDRAWN)
Advancing Solar and Analogue Sample Spectral Collection and Analysis
Robertson, Caitlin; Fazel Hesar, Fatemeh; Foing, Bernard H.; Balfe, Molly; Harvey, Matthew; Laffey, Jack; Horvat, Ivan

Tue, Jul 16, 2024

D3.8 Dayside Magnetosphere Interactions

Main Scientific Organizer: Zong, Qiugang
Deputy Organizer: Lee, Dong-Hun

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-222 D3.8-0010-24
Response of Electric Field in Terrestrial Magnetosphere to Interplanetary Shock
Liu, Wenlong; Zhang, Dianjun; Li, Xinlin; Sarris, Theodore

TWT-223 D3.8-0011-24
Numerical simulation of soft X-ray signature of high-speed magnetosheath jets
Voitcu, Gabriel; ***Echim, Marius***; Echim, Marius

TWT-224 D3.8-0012-24
Whistler-mode Waves inside Short Large-Amplitude Magnetic Field Structures: Characteristics and Generation Mechanisms
Bai, Shichen; Shi, Quanqi

TWT-225 D3.8-0013-24
Inferring the Causes of Magnetopause Motion from Geosynchronous and Equatorial Ground Magnetic Field Observations
Hsieh, Syau-Yun; Sibeck, David

TWT-226 D3.8-0014-24
Evidence for Earth wake of low-energy galactic cosmic rays in the Earth-Moon space
Shang, Wensai; Liu, Ji; Xu, Zigong; Yue, Chao; Shi, Quanqi; Wimmer-Schweingruber, Robert

Tue, Jul 16, 2024

E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

Latest results of LHAASO, Tibet AS-gamma, and KASCADE-Grande air shower experiments

Chair: Soldin, Dennis
Room: CON-205

E1.1-0031-24 09:00 - 09:20 (solicited)
A Super-PeVatron in the MW and All-particle Spectrum/composition around the knee at the solar systerm
Cao, Zhen Team: LHAASO p. 454

E1.1-0032-24 09:20 - 09:35
Measurements of Energy spectral of cosmic rays in the knee region by LHAASO
Ma, Lingling Team: LHAASO p. 454

E1.1-0033-24 09:35 - 09:50
Recent results on cosmic gamma-ray observation by the Tibet ASgamma experiment
Takita, Masato Team: The Tibet ASgamma collaboration p. 460

E1.1-0034-24 09:50 - 10:05
Modeling the heliospheric distortion of TeV cosmic-ray anisotropy observed by the Tibet ASgamma experiment
Munakata, Kazuoki; Sako, Takashi K.; Kawata, Kazumasa; Takita, Masato Team: Tibet AS-gamma collaboration p. 460

E1.1-0035-24 10:05 - 10:20
New Analysis Results from the KASCADE-Grande Cosmic-Ray Detector
Kang, Donghwa

Coffee Break

Theory: Cosmic rays in the Galaxy and interpretation of direct observations
Chair: Della Torre, Stefano
Room: CON-205

E1.1-0036-24 11:00 - 11:20 (solicited)
Antimatter nuclei as a probe for dark matter
Cholis, Ilias; Rimal, Pradip

E1.1-0037-24 11:20 - 11:35
Analyzing Cosmic Ray Spectral Features: A Numerical Investigation
Chen, Yuca; Dorris, Zachary; Seo, Eun-Suk; Ptuskin, Vladimir

E1.1-0038-24 11:35 - 11:50
Impacts of Propagation on Cosmic-Ray Isotopic Composition
Dorris, Zachary; Chen, Yuca; Seo, Eun-Suk; Ptuskin, Vladimir

E1.1-0039-24 11:50 - 12:05
Self-modulation of GeV cosmic rays penetrating dense molecular clouds
Ivlev, Alexei; Chernyshov, Dmitry; Dogiel, Vladimir

E1.1-0040-24 12:05 - 12:20
Cosmic-ray ionization rate in diffuse molecular clouds: revisited analysis with 3D dust maps
Ivlev, Alexei; Obolentseva, Marta; Silsbee, Kedron; Neufeld, David; Caselli, Paola; Edenhofer, Gordian

Tue, Jul 16, 2024

E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-227 E1.1-0087-24
Performance of the ISS-CREAM Instrument
Kang, Sinchul Team: ISS-CREAM p. 453

TWT-228 E1.1-0088-24
Analysis of Monte Carlo Simulation Data for the ISS-CREAM Instrument
Bagga, Arul Team: ISS-CREAM Collaboration p. 453

TWT-229 E1.1-0089-24
Cosmic ray-MHD flows on a magnetic flux-surface
Ko, Chung-Ming

TWT-230 E1.1-0090-24
Wave-particle resonant interactions as a mirror for the fluxes of relativistic particles in space plasmas
Shkevov, Rumen; ***Mishev, Alexander***; Mishev, Alexander; Zolnikova, Nadezhda; Mikhailovskaya, Ludmila; Metodiev, Konstantin

TWT-231 E1.1-0091-24
Microinstabilities and Electron Preacceleration at Quasi-perpendicular Shocks in the High-Beta Intracluster Medium
Kim, Sunjung; Ha, Ji-Hoon; Ryu, Dongsu; Kang, Hyesung; Choe, Gwangson

TWT-232 E1.1-0092-24
TIGERISS predicted measurements
Rauch, Brian; Zober, Wolfgang Team: TIGERISS Collaboration p. 460

TWT-233 E1.1-0093-24
The calorimeter of the HERD experiment
Liu, Xin Team: HERD collaboration p. 452

TWT-234 E1.1-0094-24
Application of GNN method for particle tracking in the HERD experiment
Wang, Junjing; Sun, Jianyi; Xu, Ming; Dong, Yongwei

Tue, Jul 16, 2024

E1.2 Advanced Timing-spectral Polarimetric Analysis and Modeling of Accreting Black Holes and Neutron Stars

Main Scientific Organizer: Mendez, Mariano
Deputy Organizer: Zdziarski, Andrzej

Jet and outflows

Room: CON-202

E1.2-0001-24 09:00 - 09:30 (solicited)
A quantitative explanation of the radio – X-ray correlation in black-hole X-ray binaries
Kylafis, Nikolaos

E1.2-0002-24 09:30 - 09:45
The interplay between accretion disk wind and jet in the neutron-star LMXB GX 13+1
Rogantini, Daniele; Homan, Jeroen; Neilsen, Joey; van Den Berg, Maureen; Fender, Rob; Chakrabarty, Deepto; Schulz, Norbert S.; Plotkin, Richard; Miller-Jones, James

E1.2-0003-24 09:45 - 10:00
Fast X-ray/O-IR properties of Swift J1727.8-1613's Quasi Periodic Oscillations
Vincentelli, Federico

E1.2-0004-24 10:00 - 10:15

Constraining the Number Density of the Accretion Disk Wind in Hercules X-1 Using its Ionization Response to X-ray Pulsations
Kosec, Peter

E1.2-0005-24 10:15 - 10:30

What is the Origin of Jets in Accreting Neutron Stars? A Unified Accretion-Ejection Mechanism for Compact Objects
Bhattacharjee, Ayan

Coffee Break

Jet and accretion disc / Reverberation
Room: CON-202

E1.2-0006-24 11:00 - 11:30 (solicited)

Timing properties in the JED-SAD paradigm
Marcel, Gregoire; Malzac, Julien

E1.2-0007-24 11:30 - 11:45

Optical and X-ray study of the geometry of MAXI J1348-630 during its 2019 outburst and rebrightenings
Alabarta, Kevin

E1.2-0008-24 11:45 - 12:15 (solicited)

Reverberation models for black hole X-ray binaries
Lucchini, Matteo; Mastroserio, Guglielmo; Wang, Jingyi; Kara, Erin; Ingram, Adam; Garcia, Javier; Dauser, Thomas; van der Klis, Michiel; König, Ole; Lewin, Collin; Nathan, Edward; Panagiotou, Christos

E1.2-0009-24 12:15 - 12:30

Mass and distance estimates of Cyg X-1 from X-ray reverberation mapping
Ingram, Adam; O'neill, Patrick

Lunch Break

Propagating fluctuations / Quasi-periodic Oscillations 1
Room: CON-202

E1.2-0010-24 15:00 - 15:30 (solicited)

A complete spectral-timing model for broadband noise due to propagating accretion fluctuations
Uttley, Phil; Lucchini, Matteo; Bollemeijer, Niek; Basak, Arkadip

E1.2-0011-24 15:30 - 16:00 (solicited)

Phase resolving QPOs to uncover Lense-Thirring precession
Nathan, Edward; Ingram, Adam; Ewing, Melissa; van der Klis, Michiel; Mastroserio, Guglielmo

E1.2-0012-24 16:00 - 16:15

A systematic view of the corona through Comptonization modeling of the QPO in bright black-hole X-ray binaries in NICER era
Zhang, Yuexin

E1.2-0013-24 16:15 - 16:30

Coronal Self-Oscillations: A Novel Framework for Understanding Low-Frequency Quasi-Periodic Oscillations
López-Barquero, Vanessa; Reynolds, Christopher; Jenkins, Alejandro; Fabian, Andy

Coffee Break

Quasi-periodic Oscillations 2
Room: CON-202

E1.2-0014-24 17:00 - 17:15

C or B: Studying the evolution of QPOs and spectral properties
Stiele, Holger; Kong, A.K.H.

E1.2-0015-24 17:15 - 17:30

Exploring the origin of type-C Quasi-periodic Oscillations in black hole X-ray binaries, MAXI J1535–571 and H 1743–322
Rawat, Divya; Husain, Nazma; Misra, Ranjeev

E1.2-0016-24 17:30 - 17:45

Exploring Quasi-Periodic Oscillations Arising from the Radiative Feedback Interaction Between the Accretion Disc and Corona
Garg, Akash; Misra, Ranjeev; Sen, Somasri

E1.2-0017-24 17:45 - 18:00

NICER, NuSTAR, and Insight-HXMT View of the BHC MAXI J1803-298 during its 2021 Outburst
Chatterjee, Kaushik; Nath, Sujoy Kumar; Debnath, Dipak; Chang, Hsiang-Kuang

E1.2-0018-24 18:00 - 18:15

Detecting quasi-periodic variability in the X-ray polarisation of X-ray binary systems
Ewing, Melissa; Ingram, Adam

E1.2-0019-24 18:15 - 18:30

The parallel tracks in kilohertz quasi-periodic oscillations from low-mass X-ray binaries
Shi, Changsheng

Tue, Jul 16, 2024

E1.3 Space-ground Scientific and Exploitation Synergies and Challenges

Main Scientific Organizer: Giménez, Alvaro
Deputy Organizer: Ubertini, Pietro

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-250 E1.3-0012-24

FXT Science Data Center of Einstein Probe
Jia, Shumei; Li, Chengkui; Zhao, Haisheng; Zhang, Juan; Guan, Ju; Ou, Ge; Song, LiMing

TWT-251 E1.3-0013-24

Science operations and space-ground synergies of the Einstein Probe mission
Li, Dongyue; Bao, Congying; Jin, Chichuan; Yuan, Weimin

TWT-252 E1.3-0014-24
Space Extendable Radio-telescope Array
Weimin, Zheng

TWT-253 E1.3-0015-24
Cosmic Radiation Effects in LiteBIRD
Della Torre, Stefano

TWT-254 E1.3-0016-24
The Challenges in the data processing of Einstein Probe mission
Ji, Zhen; Ma, Fuli; Tong, Jizhou; Yu, Qinsi; Wei, Mingyue; Zou, Ziming

TWT-255 E1.3-0017-24
Detailed design and on orbit performance for HXI onboard ASO-S
Chen, Dengyi; Wang, Hao-Xiang; Hu, Yiming; Su, Yang; Zhe, Zhang

Tue, Jul 16, 2024

E1.4 Spectral Mapping Surveys of the Universe

Main Scientific Organizer: Jeong, Woong-Seob
Deputy Organizer: Im, Myungshin

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-256 E1.4-0008-24
Development of a spectrograph in the Far-ultraviolet wavelength band
Ghatul, Shubham; ***Mohan, Rekhesh***; Mohan, Rekhesh; Chandra P, Bharat; Jain, Shubhangi; Gopalakrishnan Nair, Binukumar; Babu, Mahesh; Safonova, Margarita; Murthy, Jayant

TWT-257 E1.4-0009-24
Identification of Superclusters and their Properties in the Sloan Digital Sky Survey
Sankhyayan, Shishir

TWT-258 E1.4-0010-24
Identification of Wolf-Rayet stars and line-emitting sources with SPHEREx
Jung, Moo-Keon; Yoon, Sung-Chul

Tue, Jul 16, 2024

E1.5 Illuminating Gravitational Waves and their Environments

Main Scientific Organizer: Troja, Eleonora
Deputy Organizer: Im, Myungshin

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-259 E1.5-0034-24
The KOYOH Microsatellite: Monitoring of X-ray Transient Sources and Rapid Alert System
Sawano, Tatsuya; Akahane, Takayuki; Arimoto, Makoto; Eguchi, Daichi; Hasegawa, Takuma; Horita, Masashi; Imachi, Tomohiko; Imizu, Yuki; Jikuya, Ichiro; Kasahara, Yoshiya; Kato, Yuki; Kawamoto, Ryuki; Kawasuji, Naoki; Kimura, Mariko; Kiyoi, Ayaka; Kojima, Yasuha; Kurosu, Tomohisa; Matsuda, Shoya; Mihara, Tatehiro; Nakamura, Shunsuke; Nishide, Taro; Otaki, Takeo; Sakata, Misaki; Shoji, Yasuhiro; Suzuki, Taisei; Takahashi, Naoki; Takeuchi, Kaiji; Utoyama, Mitsuki; Yagitani, Satoshi; Yonetoku, Daisuke; Yoshida, Tsubasa

TWT-260 E1.5-0035-24
Initial Flight Results of Astronomical Observation with Kanazawa University Satellite KOYOH
Takahashi, Naoki; Sawano, Tatsuya; Yonetoku, Daisuke; Akahane, Takayuki; Arimoto, Makoto; Eguchi, Daichi; Hasegawa, Takuma; Horita, Masashi; Imachi, Tomohiko; Imizu, Yuki; Jikuya, Ichiro; Kasahara, Yoshiya; Kato, Yuki; Kawamoto, Ryuki; Kawasuji, Naoki; Kimura, Mariko; Kiyoi, Ayaka; Kojima, Yasuha; Kurosu, Tomohisa; Matsuda, Shoya; Nakamura, Shunsuke; Nishide, Taro; Otaki, Takeo; Sakata, Misaki; Shoji, Yasuhiro; Takeuchi, Kaiji; Utoyama, Mitsuki; Yagitani, Satoshi; Yoshida, Tsubasa; Suzuki, Taisei

TWT-261 E1.5-0036-24
The Gravitational Wave AfterglowPy Analysis (GWAPA) webtool
Eyles-Ferris, Rob; Troja, Eleonora; van Eerten, Hendrik; O'Brien, Paul

TWT-262 E1.5-0037-24
Development and performance of wide field X-ray monitor onboard HiZ-GUNDAM
Goto, Hatsune; Yonetoku, Daisuke; Nagataka, Isshin; Sawano, Tatsuya; Arimoto, Makoto; Sakamoto, Takanori; Mihara, Tatehiro; Takase, Naoki; Kaga, Toru; Nakatsubo, Shunichi; Doi, Akihiro; Maeda, Yoshitomo; Matsuhara, Hideo

TWT-263 E1.5-0038-24
Upper limit estimation of X-ray flux for gravitational wave counterparts with MAXI
Kondo, Yuta; Sakamoto, Takanori; Serino, Motoko; Sugita, Satoshi; Hiramatsu, Hiroki; Nishikawa, Hinano; Kawai, Nobuyuki; Negoro, Hitoshi; Nakajima, Motoki; Mihara, Tatehiro; Kawakubo, Yuta

TWT-264 E1.5-0039-24

Multi-messaging prelude: precursors of gravitational wave emitters at the milliarcsecond scale
Gurvits, Leonid; Polnarev, Alexandre; Frey, Sándor; Titov, Oleg

E1.5-0040-24 (WITHDRAWN)

Search for the primordial gravitational waves by the apparent proper motion of extragalactic radio sources
Osetrova, Angelina; Titov, Oleg

TWT-265 E1.5-0041-24

Searching for an Electromagnetic X-ray Counterpart of Gravitational-wave by 3U CubeSat SEAGULL
Sakamoto, Takanori; ***Li, Junyi***; Li, Junyi; Sei, Kensyo; Serino, Motoko

TWT-266 E1.5-0042-24

The Impact of Solar – Terrestrial Plasma and Magnetic Field on the Detection of Gravitational Waves
Wei, Su; Chen, P. F.

TWT-267 E1.5-0043-24

Prioritising Gravitational Wave form accuracy for EMRI systems: Higher Order Vacuum Corrections vs. Environmental effect.
Basu, Prasad; Mondal, Soumen

TWT-268 E1.5-0044-24

Detectability of gas-rich E/IMRI's in LISA band: observable signature of transonic accretion flow.
Mondal, Soumen; Basu, Prasad

Tue, Jul 16, 2024

E1.6 Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations

Main Scientific Organizer: Natalucci, Lorenzo
Deputy Organizer: Branchesi, Marica

Future prospects, missions and advanced instrumentation [1]

Room: CON-110

E1.6-0032-24 09:00 - 09:20 (solicited)

Probing the progenitors of GRBs and GW counterparts in X-rays: forward Athena
Piro, Luigi

E1.6-0033-24 09:20 - 09:40 (solicited)

The status and scientific capability of the Einstein Probe mission
Yuan, Weimin

E1.6-0034-24 09:40 - 09:55

MAXI: current status and future prospects
Negoro, Hitoshi Team: MAXI p. 454

E1.6-0035-24 09:55 - 10:10

Preliminary results of LEIA - the pathfinder of Einstein Probe
Li, Dongyue; Yuan, Weimin; Liu, Yuan; Zhang, Chen; Ling, Zhixing; Jin, Chichuan; Zhang, Wenda; Pan, Haiwu; Cheng, Huaqing; Sun, Hui; Liu, Heyang

E1.6-0036-24 10:10 - 10:25

Prospects for Time-Domain and Multi-Messenger Science with AXIS
Haggard, Daryl; Cenko, Bradley Team: AXIS Time-Domain and Multi-Messenger Science Working Group p. 448

Coffee Break

Future prospects, missions and advanced instrumentation [2]

Room: CON-110

E1.6-0037-24 11:00 - 11:20 (solicited)

The Einstein Telescope
Harms, Jan

E1.6-0038-24 11:20 - 11:40 (solicited)

Neutrino astronomy with IceCube: Present and Future
Ackermann, Markus

E1.6-0039-24 11:40 - 12:00 (solicited)

Recent results from KM3NET and ANTARES
Kouchner, Antoine

E1.6-0040-24 12:00 - 12:15

Status of AMEGO-X, the All-sky Medium Energy Gamma-Ray Observatory eXplorer
Suda, Yusuke; Caputo, Regina; Ajello, Marco; Kierans, Carolyn; Perkins, Jeremy; Fukazawa, Yasushi; Steinhebel, Amanda; Tajima, Hiroyasu; Violette, Daniel Team: AMEGO-X p. 446

E1.6-0041-24 12:15 - 12:30

The Chasing All Transients Constellation Hunters (CATCH) Space Mission in 2024
Tao, Lian Team: CATCH team p. 449

Lunch Break

Future prospects, missions and advanced instrumentation [3]

Room: CON-110

E1.6-0042-24 15:00 - 15:20 (solicited)

The Lunar Gravitational-wave Antenna
Harms, Jan

E1.6-0043-24 15:20 - 15:35

Time Domain Astronomy and Multi-Messenger Science with STROBE-X
Roming, Pete Team: STROBE-X p. 459

E1.6-0044-24 15:35 - 15:50

Qualification of the COMCUBE gamma-ray polarimeter in stratospheric balloon flights
Tatischeff, Vincent Team: COMCUBE p. 449

E1.6-0045-24 15:50 - 16:05

MeV Astrophysical Spectroscopic Surveyor (MASS): A Compton Telescope for Emission Line Astrophysics
Zhu, Jiahuan; Zheng, Xutao; Feng, Hua; Zeng, Ming

E1.6-0046-24 16:05 - 16:20
The Very Large Area gamma-ray Space Telescope (VLAST)
Yue, Chuan

Tue, Jul 16, 2024

E1.6 Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations

Main Scientific Organizer: Natalucci, Lorenzo
Deputy Organizer: Branchesi, Marica

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-269 E1.6-0047-24
Chasing after the near-infrared afterglow of gamma-ray bursts with COLIBRI/CAGIRE
Fortin, Francis Team: COLIBRI/CAGIRE team p. 449

Tue, Jul 16, 2024

E1.7 Black Hole Astrophysics: Theory and Simulations Confront Observations

Main Scientific Organizer: Chakrabarti, Sandip Kumar
Deputy Organizer: Laurent, Philippe

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

E1.7-0042-24 (WITHDRAWN)
Imprints of spin on the solution and emission spectrum of accretion flows around black holes
Sarkar, Shilpa; Chattopadhyay, Indranil

TWT-270 E1.7-0043-24
Analytic theory of accretion disks in axially symmetric space-times
Laemmerzahl, Claus

TWT-271 E1.7-0044-24
Extended Database of Massive Binaries and the Gravitational Waveforms they Generate
Pislan, Florentina; Caramete, Laurentiu Ioan; Caramete, Ana

E1.7-0045-24 (WITHDRAWN)
Searching for dual active galactic nuclei in Dark Energy Spectroscopic Instrument.
Dadiani, Ekaterine

TWT-272 E1.7-0046-24
Detection Prospects of Electromagnetic Signals from the Isolated Stellar-Mass Black Hole OGLE-2011-BLG-0462
Kimura, Shigeo; Sahu, Kailash; Murchikova, Elena

Tue, Jul 16, 2024

E1.8 Solving the Accretion/Ejection Puzzle in AGN: Synergies and Clashes in the Central kpc

Main Scientific Organizer: Bruni, Gabriele
Deputy Organizer: Molina, Manuela

Accretion regimes/episodes and multi-scale analogies

Chair: Bruni, Gabriele
Room: CON-201

E1.8-0001-24 09:00 - 09:20 (solicited)
A review of X-ray quasi-periodic eruptions in galactic nuclei
Giustini, Margherita

E1.8-0002-24 09:20 - 09:40 (solicited)
Changing-look AGN
Ricci, Claudio

E1.8-0003-24 09:40 - 10:00 (solicited)
Similarities and differences between active galactic nuclei and black-hole X-ray binaries
Zdziarski, Andrzej

E1.8-0004-24 10:00 - 10:15
Identifying changing-look AGNs using variability characteristics
Wang, Shu; Woo, Jong-Hak; Gallo, Elena; Guo, Hengxiao; Son, Donghoon; Kong, Minzhi; Mandal, Amit Kumar; Cho, Hojin; Kim, Changseok

E1.8-0005-24 10:15 - 10:30
Unveiling the Dynamics of Black Hole Accretion: From Micro to Macroscopic Scales
Palit, Ishika

Coffee Break

The black hole surroundings: the disk-jet connection I

Chair: Rodi, James Craig
Room: CON-201

E1.8-0006-24 11:00 - 11:20 (solicited)

Exploring the Disk-Jet Connection in Nearby Jetted AGN
Ricci, Luca; Kadler, Matthias; Boccardi, Biagina; Ros, Eduardo; Fromm, Christian; Perucho, Manel; Baczko, Anne-Kathrin; Heßdörfer, Jonas; Eppel, Florian; Roesch, Florian; Mattia, Giancarlo

E1.8-0007-24 11:20 - 11:35

Accretion mode and gamma-ray jet emission: a comparison between 3C 111 and 3C 371
Bartolini, Vieri; Boccardi, Biagina; Grandi, Paola; Torresi, Eleonora; Ricci, Luca; Kadler, Matthias; Kim, Daewon; Ros, Eduardo; Zensus, Anton

E1.8-0008-24 11:35 - 11:50

Jet power of gamma-ray emitting radio galaxies and relation with accretion power
Fukazawa, Yasushi; Fukazawa, Yasushi; Matake, Hiroto

E1.8-0009-24 11:50 - 12:05

Black hole mass and jet power in early-type galaxies
Werner, Norbert; Plsek, Tomas

E1.8-0010-24 12:05 - 12:20

The Nuclear Environments of Accreting SMBH at z 0
Shastri, Prajval

Lunch Break

The black hole surroundings: the disk-jet connection II

Chair: Ricci, Luca
Room: CON-201

E1.8-0011-24 15:00 - 15:15

Low-Luminosity AGN effects and their impact on host galaxies
López, Iván Ezequiel

E1.8-0012-24 15:15 - 15:30

Understanding circumnuclear environments in M31 and M81 with multi-wavelength, high-resolution observations
Li, Zongnan; Li, Zhiyuan

E1.8-0013-24 15:30 - 15:45

Broadband X-ray Spectral Study of Nuclear Structure in Local Radio Galaxies
Nakatani, Yuya; Ueda, Yoshihiro; Ogawa, Shoji; Uematsu, Ryosuke

E1.8-0014-24 15:45 - 16:00

The GRACE project: high-energy giant radio galaxies and their duty cycle
Bruni, Gabriele; Panessa, Francesca; Bassani, Loredana; Malizia, Angela; Molina, Manuela; Brienza, Marisa; Ursini, Francesco

E1.8-0015-24 16:00 - 16:15

Investigating the Origin of the Hard X-ray/Soft Gamma-ray Emission in Cen A with INTEGRAL
Rodi, James Craig; Jourdain, Elisabeth; Roques, Jean-Pierre

E1.8-0016-24 16:15 - 16:30

Relationship between jet and plasma gas temperature in NGC5128
Urata, Misaki; Fukazawa, Yasushi; Kayanoki, Taishu

Coffee Break

Inflow/outflow connections in different classes of AGN

Chair: Giustini, Margherita
Room: CON-201

E1.8-0017-24 09:00 - 09:15 (solicited)

The power of X-ray outflows in local, bright Seyfert I galaxies
Rogantini, Daniele

E1.8-0018-24 09:15 - 09:30

An X-ray Census of AGN in the Virgo and Fornax Clusters of Galaxies with SRG/eROSITA
Hou, Meicun; Li, Zhiyuan

E1.8-0019-24 (WITHDRAWN) 09:30 - 09:45

Nuclear feedback of luminous quasars at the Epoch of Reionization: evidence of an interplay between accretion inflow and outflowing gas
Tortosa, Alessia

E1.8-0020-24 09:45 - 10:00

Connecting Feeding and Outflow Processes in Windy Quasars
Choi, Hyunseop; Leighly, Karen; Dabbieri, Collin; Terndrup, Donald; Gallagher, Sarah; Richards, Gordon

E1.8-0021-24 10:00 - 10:15

Using X-ray variability to prove the nature of the ultra-fast outflows in (highly-accreting) supermassive black holes
Xu, Yerong; Pinto, Ciro; Kara, Erin; Bianchi, Stefano; Barret, Didier; Guainazzi, Matteo; Rogantini, Daniele; Alston, William; Ebrero, Jacobo

E1.8-0022-24 10:15 - 10:30

AGN Fireworks: The Spark Behind Ionized Gas Outflows
Nandi, Payel; Cheliah Subramonian, Stalin

Tue, Jul 16, 2024

E1.8 Solving the Accretion/Ejection Puzzle in AGN: Synergies and Clashes in the Central kpc

Main Scientific Organizer: Bruni, Gabriele
Deputy Organizer: Molina, Manuela

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-273 E1.8-0029-24

Interferometric Monitoring of Gamma-ray Bright AGNs: 4C +28.07 and its Synchrotron Self-absorption Spectrum
Nam, Myeong-Seok; Lee, Sang-Sung; Cheong, Whee Yeon

Tue, Jul 16, 2024

E1.9 Spectral/Timing Properties of AGN: Theory and Observations

Main Scientific Organizer: Papadakis, Iossif
Deputy Organizer: Dewangan, Gulab

X-ray studies of AGN

Chair: de Cicco, Demetra
Room: CON-107

E1.9-0029-24 09:00 - 09:30 (solicited)
X-ray polarization observations of AGN
Ursini, Francesco

E1.9-0030-24 09:30 - 09:45
The Origin of the X-Ray Polarization in the Circinus Galaxy
Tanimoto, Atsushi; Wada, Keiichi; Kudoh, Yuki; Odaka, Hirokazu; Uematsu, Ryosuke; Ogawa, Shoji

E1.9-0031-24 09:45 - 10:00
Broadband UV – X-ray spectral variability in NGC 4151
Kumar, Shrabani; Dewangan, Gulab; Gandhi, Poshak; Papadakis, Iossif; N. P. S, Mithun; Singh, Kulinder Pal; Bhattacharya, Dipankar

E1.9-0032-24 10:00 - 10:15
Enigmatic X-ray variability of ESO 141-G55 over the last two Decades
Chatterjee, Arka; Nandi, Prantik; Macintyre, Brydyn; Safi-Harb, Samar; Jana, Arghajit

E1.9-0033-24 10:15 - 10:30
Self-consistent population synthesis of AGN from observational constraints in the X-rays
Gerolymatou, Dimitra; Paltani, Stephane; Ricci, Claudio

Coffee Break

Changing look AGN and tidal distruption events

Chair: Davis, Shane
Room: CON-107

E1.9-0034-24 11:00 - 11:30 (solicited)
Changing-look AGN
Ricci, Claudio

E1.9-0035-24 11:30 - 12:00 (solicited)
A multi-wavelength and multi-messenger overview of stellar tidal disruption events
Pasham, Dheeraj

E1.9-0036-24 12:00 - 12:15
An accretion disk with magnetic outflows triggered by a TDE in CLAGN 1ES 1927+654
Cao, Xinwu; You, Bei

E1.9-0037-24 12:15 - 12:30
Exploring Changing-State AGNs with Long-Term Multiwavelength Observations
Jana, Arghajit; Ricci, Claudio; Temple, Matthew; Chang, Hsiang-Kuang; Shablovinskaia, Elena; Nandi, Prantik; Ilic, Dragana

Tue, Jul 16, 2024

E1.11 Coevolution between High-redshift Quasars and Galaxies in the Era of JWST

Main Scientific Organizer: Inayoshi, Kohei
Deputy Organizer: Silverman, John

Room: CON-108

E1.11-0011-24 09:00 - 09:30 (solicited)
A JWST/NIRSpec Census of Broad-line AGNs at z=4–7
Harikane, Yuichi

E1.11-0012-24 09:30 - 09:45
Constraints on Reionization and SMBH Growth from JWST Quasar IGM Damping Wing Measurements
Hennawi, Joseph

E1.11-0013-24 09:45 - 10:00
Interpreting the observed black hole - host galaxy mass relations at z 6
Silverman, John

E1.11-0014-24 10:00 - 10:15
Birth of Rapidly Spinning, Overmassive Black Holes in the Early Universe
Inayoshi, Kohei

E1.11-0015-24 10:15 - 10:30
Poster talks
Nabizadeh, Armin; Park, Jaehong

Coffee Break

Room: CON-108

E1.11-0016-24 11:00 - 11:15
Early coevolution of galaxies and central black holes in a semi-analytic model
Oogi, Taira; Matsuoka, Yoshiki; Nagashima, Nasahiro; Kawaguchi, Toshihiro; Okamoto, Takashi; Enoki, Motohiro

E1.11-0017-24 11:15 - 11:30
TRINITY: Empirical Model of Galaxy–Supermassive Black Hole Connection from z=0-10
Zhang, Haowen; Behroozi, Peter; Volonteri, Marta; Silk, Joseph; Fan, Xiaohui; Aird, James; Hopkins, Philip

E1.11-0018-24 11:30 - 11:45
The relationship of SMBHs and host galaxies at intermediate redshift in the variability-selected AGNs
Hoshi, Atsushi; Yamada, Toru

E1.11-0019-24 11:45 - 12:00
Uncovering the Type-2 QSO Population at High Redshift
Wang, Ben; Hennawi, Joseph

E1.11-0020-24 12:00 - 12:15
Discussion session II
Ferrara, Andrea

Lunch Break

Room: CON-108

E1.11-0021-24 15:00 - 15:30 (solicited)
Diagnosing the Early Growth of Massive Black Holes
Haiman, Zoltan

E1.11-0022-24 15:30 - 15:45
Outflow regulated rapid growth of seed BHs at cosmic dawn and their detectabilities with JWST
Hu, Haojie

E1.11-0023-24 15:45 - 16:00
Formation of the first galaxies: starburst induced by FUV feedback and inefficient growth of Pop III remnant BHs
Sugimura, Kazuyuki; Ricotti, Massimo; Park, Jongwon; Garcia, Fred Angelo; Yajima, Hidenobu

E1.11-0024-24 16:00 - 16:15
The condition of super-Eddington accretion of wandering seed black holes considering anisotropic radiation field and dust sublimation
Ogata, Erika; Ohsuga, Ken; Fukushima, Hajime

Coffee Break

Room: CON-108

E1.11-0025-24 09:00 - 09:30 (solicited)
Pioneering Views of Distant Supermassive Black Holes with JWST
Onoue, Masafusa

E1.11-0026-24 09:30 - 09:45
Detection of stellar light from quasar host galaxies at redshifts above 6
Ding, Xuheng

E1.11-0027-24 09:45 - 10:00
Mapping the Circumgalactic Medium around AGN Through the Diffuse Emission
Cai, Zheng

E1.11-0028-24 10:00 - 10:15
New Frontiers in Quasar Research: Unveiling the Earliest Quasar Populations with Euclid
Yang, Daming; Hennawi, Joseph

Tue, Jul 16, 2024

E1.11 Coevolution between High-redshift Quasars and Galaxies in the Era of JWST

Main Scientific Organizer: Inayoshi, Kohei
Deputy Organizer: Silverman, John

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

E1.11-0039-24 (WITHDRAWN)
The Turbulent Origin of the First Quasars
Whalen, Daniel

E1.11-0040-24 (WITHDRAWN)
Multi-wavelength characterization of black hole feedback at z=7
Bischetti, Manuela

E1.11-0041-24 (WITHDRAWN)
Painting the Cosmos Red: JWST Insights into Red Super Massive Black Holes
Kokorev, Vasily

E1.11-0042-24 (WITHDRAWN)
Super-Eddington accreting black hole emerged in the epicenter of little red dots, mergers, and dusty starbursts at z=7.2
Fujimoto, Seiji

E1.11-0043-24 (WITHDRAWN)
The population of infant black holes revealed by JWST
Maiolino, Roberto

E1.11-0044-24 (WITHDRAWN)
Public release of Near-Infrared and Optical Spectroscopy of Quasars at z 6.5 and analysis of their proximity zones
Onorato, Silvia

TWT-235 E1.11-0045-24
Two-component spectral energy distributions of gravitationally lensed stars at high redshifts
Nabizadeh, Armin; Zackrisson, Erik; Lundqvist, Emma

E1.11-0046-24 (WITHDRAWN)
Mapping the Lyman-alpha Universe: Semi-empirical modeling of Lyman-alpha emitters in a large simulation
Park, Jaehong; Park, Changbom; Kim, Juhan; Lee, Jaehyun

E1.11-0047-24 (WITHDRAWN)
Tracing the evolution of supermassive black holes with high-z quasar clustering measurements
Pizzati, Elia

E1.11-0048-24 (WITHDRAWN)
Towards precision constraints on reionization history and SMBH growth with quasar IGM damping wings
Kist, Timo

Tue, Jul 16, 2024

E1.12 Gamma-ray Bursts in the next Decade

Main Scientific Organizer: D'avanzo, Paolo
Deputy Organizer: Bissaldi, Elisabetta

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-237 E1.12-0032-24
Infra-red light curves of GRB afterglows observed at AKO
Guessoum, Nidhal; Odeh, Mohammad; Alshamsi, Shaikha; Akl, Dalya; Abdi, Ilmah

TWT-238 E1.12-0033-24
Redshift Estimates for Short Gamma-Ray Bursts Using Phenomenological Correlations
Aimuratov, Yerlan

TWT-239 E1.12-0034-24
Searching for high-energy transient sources with SVOM/ECLAIRs: offline trigger development.
Llamas Lanza, Miguel; Bouchet, Laurent

TWT-240 E1.12-0035-24
GRB 230812B: A Three-Second Gamma-Ray Burst with Supernova Association Detected by the GRID Mission
Wang, Chenyu; Zhang, Binbin; Feng, Hua; Zeng, Ming Team: GRID collaboration p. 451

TWT-241 E1.12-0036-24
Modelling gamma-ray burst X-ray afterglow spectra with time-evolving photoionisation
Thakur, Aishwarya Linesh; ***Piro, Luigi***; Piro, Luigi; Luminari, Alfredo; Nicastro, Fabrizio

TWT-242 E1.12-0037-24
Improved Tools for GRB-Afterglow Photometry
Akl, Dalya; Antier, Sarah; Karpov, Sergey; Odeh, Mohammad; Guessoum, Nidhal

TWT-243 E1.12-0038-24
Early Results from the Glowbug Gamma-ray Transient Telescope
Cheung, C. C. Teddy; Grove, J Eric; Kerr, Matthew; Woolf, Richard; Goldstein, Adam; Wilson-Hodge, Colleen; Kocevski, Daniel; Briggs, Michael

E1.12-0039-24 (WITHDRAWN)
Large-scale Evolution of Seconds-long Relativistic Jets from Black Hole-Neutron Star Mergers
Issa, Danat

Tue, Jul 16, 2024

E1.14 Multi-wavelength fast variability across mass scales: from neutron stars to supermassive black holes

Main Scientific Organizer: Vincentelli, Federico
Deputy Organizer: Russell, David

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-245 E1.14-0016-24
DART: radio astronomy observations of pulsars, FRBs, and extended sources
Yuan, Mao; Yan, Jingye; Wu, Lin

Tue, Jul 16, 2024

E1.16 High Mass X-ray Binaries: a new View on Accretion and Reprocessing

Main Scientific Organizer: Paul, Biswajit
Deputy Organizer: Chaty, Sylvain

Room: CON-109

E1.16-0010-24 09:00 - 09:15
First IXPE view of ULX pulsar Swift J0243.6+6124: Polarimetric results and detection of pulsation
Majumder, Seshadri; Chatterjee, Rwitika; Jayasurya, Kiran; das, Santabrata; Nandi, Anuj

E1.16-0011-24 09:15 - 09:35
Recent MAXI studies of new high-mass X-ray binaries with magnetized neutron stars
Sugizaki, Mutsumi

E1.16-0012-24 (WITHDRAWN) 09:35 - 09:50
Study of reprocessing environment in high mass X-ray binary pulsars using iron fluorescence emission
Roy, Kinjal; Manikantan, Hemanth; Paul, Biswajit

E1.16-0013-24 (WITHDRAWN) 09:50 - 10:05
Homogenous Analysis of pulsed fraction spectra of High Mass X-ray binaries observed by NUSTAR
Ambrosi, Elena; Ferrigno, Carlo; DAi, Antonino; Maniadakis, Dimitrios K.; Cusumano, Giancarlo

E1.16-0014-24 10:05 - 10:25

Using Vela X-1 to understand accretion and wind structure in High-Mass X-ray Binaries
Diez, Camille; Grinberg, Victoria; Fuerst, Felix; Kretschmar, Peter; El Mellah, Ileyk; Martínez-Núñez, Silvia; Santangelo, Andrea

Coffee Break

Room: CON-109

E1.16-0015-24 11:00 - 11:30

HMXBs and ULXs in star-forming galaxies
Gilfanov, Marat

E1.16-0016-24 (WITHDRAWN) 11:30 - 11:50

An investigation of the '10 keV feature' in the spectra of accretion powered X-ray pulsars with NuSTAR
Manikantan, Hemanth; Paul, Biswajit; Rana, Vikram

E1.16-0017-24 11:50 - 12:10

The X-Ray Spectra of Accreting Pulsars in High Mass Binary Systems
Wolff, Michael; Becker, Peter

E1.16-0018-24 12:10 - 12:25

Orbital phase resolved and Intensity resolved spectroscopy of HMXBs with MAXI
Paul, Biswajit; Manikantan, Hemanth; Balu, Ajith; Tamang, Abhisek; Roy, Kinjal

Lunch Break

Room: CON-109

E1.16-0019-24 15:00 - 15:15

Probing accretion regimes and non-dipolar magnetic fields in HMXBs using Cyclotron lines in neutron star spectra
Devaraj, Ashwin; Paul, Biswajit; Sharma, Rahul; Nagesh, Shwetha

E1.16-0020-24 15:15 - 15:30

Stellar wind variability in Cyg X-1 from high-resolution excess variance spectroscopy with Chandra
Härer, Lucia; Parker, Michael L.; El Mellah, Ileyk; Grinberg, Victoria; Ballhausen, Ralf; Igo, Zsofi; Joyce, Amy; Wilms, Joern

E1.16-0021-24 15:30 - 15:45

High Resolution Spectra of the Galactic Binary Pulsar 4U 1907+09
Yang, Jun; Schulz, Norbert S.; Torrejon, Jose; Hemphill, Paul; Canizares, Claude

E1.16-0022-24 15:45 - 16:00

A candidate cyclotron line source in the HMXB transient IGR J16418-4532
Natalucci, Lorenzo; Fiocchi, Mariateresa; Tomsick, John

E1.16-0023-24 (WITHDRAWN) 16:00 - 16:15

The extraordinary pulse fraction spectra of the pulsar V0332+53: hints for a complex cyclotron line shape
DAi, Antonino; Maniadakis, Dimitrios K.; Ferrigno, Carlo; Ambrosi, Elena; Cusumano, Giancarlo

Tue, Jul 16, 2024

E1.16 High Mass X-ray Binaries: a new View on Accretion and Reprocessing

Main Scientific Organizer: Paul, Biswajit
Deputy Organizer: Chaty, Sylvain

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

E1.16-0024-24 (WITHDRAWN)

Discovery of a cyclotron line in Be X-ray Pulsar IGR J06074+2205
Roy, Kinjal; Sharma, Rahul; Manikantan, Hemanth; Paul, Biswajit

TWT-247 E1.16-0025-24

Long-term study of broadband variability in Cygnus X-1 using AstroSat
Lalthantluanga, H; Garg, Akash; Chhangte, Vanzarmawii; Misra, Ranjeev; Zadeng, Lalthakimi

TWT-248 E1.16-0026-24

Statistical Analysis of Type I and Type II Outbursts in Be X-ray Binary Systems
Polaks, Andis; Nabizadeh, Armin; Tsygankov, Sergey

TWT-249 E1.16-0027-24

Study of eclipse flares in High Mass X-ray Binary Systems Vela X-1, 4U 1700-37, and LMC X-4
Rikame, Ketan; Paul, Biswajit; Sharma, Rahul; Jithesh, V

Tue, Jul 16, 2024

E1.19 Cataclysmic Variables and Related Systems as Probes of Accretion, Binary Evolution and Thermo-nuclear Explosions

Main Scientific Organizer: Balman, Solen
Deputy Organizer: Jose, Jordi

Magnetic cataclysmic variables and their observations

Chair: Balman, Solen
Room: CON-203

E1.19-0001-24 09:00 - 09:20

Asynchronous Polars and Slowly Rotating IPs
Mason, Paul A.

E1.19-0002-24 09:20 - 09:40
Gravitational Redshift Detection from the Diskless Intermediate Polar RX J1712.6-2414
Hayashi, Takayuki

E1.19-0003-24 09:40 - 10:00
DW Cnc: an intermediate polar with elusive spin and beat-periods
Echevarria, Juan

E1.19-0004-24 10:00 - 10:20
Phase-resolved spectroscopic and spectropolarimetric observations of the magnetic cataclysmic binary EF Eridani during the 2023 high state
Khangale, Zwidofhelangani Ndamulelo; Potter, Stephen

Coffee Break

Accreting white dwarf binaries and the role of the magnetic field
Chair: Orio, Marina
Room: CON-203

E1.19-0005-24 11:00 - 11:30 (solicited)
The eROSITA view of accreting compact white-dwarf binaries
Schwope, Axel

E1.19-0006-24 11:30 - 11:50
Unveiling the Role of Magnetic Field in Generating Quasi-Periodic Oscillations: Insights from Accreting White Dwarf Systems
Veresvarska, Martina; Scaringi, Simone; Knigge, Christian

E1.19-0007-24 11:50 - 12:10
Magnetic White Dwarfs in Very Long-Period Cataclysmic Variables
Tovmassian, Gagik; Rodrigues, Claudia

E1.19-0008-24 12:10 - 12:30
Observations of cataclysmic variables using SPARC4
Rodrigues, Claudia

Lunch Break

Accreting white dwarf binaries and the non-magnetic systems I
Chair: Drake, Jeremy
Room: CON-203

E1.19-0009-24 15:00 - 15:30
Cataclysmic variables found with the Zwicky Transient Facility
van Roestel, Jan; Szkody, Paula

E1.19-0010-24 15:30 - 15:50
[HP99]159 - the first SSS with an evolved He donor
Szegedi, Helene; Charles, Philip; Buckley, David; Meintjes, Pieter; Mroz, Przemek

E1.19-0011-24 15:50 - 16:10
Symmetrical Outbursts in Long-Orbital Period CVs and Supersoft Sources
Charles, Philip; Szegedi, Helene; Buckley, David; Król, Krzysztof; Meintjes, Pieter; Mroz, Przemek

E1.19-0012-24 16:10 - 16:30
V Sge: Supersoft X-ray Source or Exotic Hot Binary?
Charles, Philip; Hakala, Pasi; Rodríguez-Gil, Pablo

Coffee Break

Accreting white dwarf binaries and the non-magnetic systems II
Chair: Tovmassian, Gagik
Room: CON-203

E1.19-0013-24 17:00 - 17:30
Advective hot flows in CVs and Accreting White Dwarfs : ionization conditions
Balman, Solen

E1.19-0014-24 17:30 - 17:50
A DISC WIND ORIGIN FOR OPTICAL SPECTRA OF OUTBURSTING DWARF NOVAE
Tampo, Yusuke; Nogami, Daisaku; Kato, Taichi; Knigge, Christian; Long, Knox S.; Matthews, James H.

E1.19-0015-24 17:50 - 18:05
Properties of V1838 Aql in quiescence
Ramirez Ramirez, Sergio Humberto; Hernandez-Santisteban, Juan Venancio; Echevarria, Juan; Gaensicke, Boris; Bigwood, Leah; van Den Eijnden, Jakob; Degenaar, Nathalie; van Haastere, Luna; Russell, Thomas

Tue, Jul 16, 2024

E2.1 Energetics and dynamics in the quiet solar atmosphere and beyond

Main Scientific Organizer: Huang, Zhenghua
Deputy Organizer: Madjarska-Theissen, Maria

Energetics and dynamics in the quiet solar atmosphere and beyond: Q7

Chair: Lee, Jeongwoo
Room: CON-106

E2.1-0027-24 09:00 - 09:30 (solicited)
Modeling of coronal heating events and their impact on the transition region and chromosphere, and comparison with observations
Testa, Paola

E2.1-0028-24 09:30 - 09:45
Formation of a Fan-spine magnetic Topology Flux Emergence and Subsequent Jet Production
Duan, Yadan

E2.1-0029-24 09:45 - 10:00
A Type II Radio Burst Driven by a Blowout Jet on the Sun
Hou, Zhenyong; Tian, Hui; Wei, Su; Madjarska-Theissen, Maria; Chen, Hechao; Zheng, Ruisheng; Bai, Xianyong; Deng, Yuanyong

E2.1-0030-24 10:00 - 10:15
A model for heating the super-hot corona in solar active regions
Lu, Zekun; Chen, Feng; Ding, Mingde; Wang, Can; Dai, Yu; Cheng, Xin

E2.1-0031-24 10:15 - 10:30

Elemental Abundances at Coronal Hole Boundaries as a Means to Investigate Interchange Reconnection and the Solar Wind
Koukras, Alexandros; Savin, Daniel W.; Hahn, Michael

Coffee Break

Energetics and dynamics in the quiet solar atmosphere and beyond: Q8
Chair: Li, Bo
Room: CON-106

E2.1-0032-24 11:00 - 11:30 (solicited)

Solar Wind Origins
Velli, Marco; Panasenco, Olga; D'amicis, Raffaella; Lionello, Roberto; Reville, Victor

E2.1-0033-24 11:30 - 11:50 (solicited)

The proportions and properties of the near-Earth solar wind originating from different types of source regions during solar cycles 23 and 24
Fu, Hui; Li, Bo; Madjarska-Theissen, Maria; Huang, Zhenghua; Xia, Lidong

E2.1-0034-24 11:50 - 12:10 (solicited)

Solar Spicules and Solar Wind Switchbacks
Lee, Jeongwoo

E2.1-0035-24 12:10 - 12:30

Oral poster presentations - 2
Huang, Zhenghua

Lunch Break

Energetics and dynamics in the quiet solar atmosphere and beyond: Q9
Chair: Velli, Marco
Room: CON-106

E2.1-0036-24 15:00 - 15:15

The statistical analysis on the temperature and FIP bias of active regions and their relationships to associated solar wind
Ma, Chi

E2.1-0037-24 15:15 - 15:30

Tracking in-situ Slow Solar Wind Streamers back to the Solar Chromosphere
Rao, Shihao; Li, Chuan; He, Jiansen; Hou, Chuanpeng; Wu, Ziqi

E2.1-0038-24 15:30 - 16:00 (solicited)

Constraining the properties and driving mechanisms of stellar winds
See, Victor

E2.1-0039-24 16:00 - 16:30 (solicited)

Scaling Laws for Solar and Stellar Atmospheric Heating
Toriumi, Shin

Tue, Jul 16, 2024

E2.1 Energetics and dynamics in the quiet solar atmosphere and beyond

Main Scientific Organizer: Huang, Zhenghua
Deputy Organizer: Madjarska-Theissen, Maria

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-274 E2.1-0040-24

Internal Activities in a Solar Filament and Heating in Its Threads
Wei, Hengyuan; Huang, Zhenghua; Li, Chuan; Hou, Zhenyong; Qiu, Ye; Fu, Hui; Bai, Xianyong; Xia, Lidong

TWT-275 E2.1-0041-24

Measurements to electron density and magnetic strength of coronal structures with CoMP observations
Shi, Huixin; Huang, Zhenghua

TWT-276 E2.1-0042-24

Brightenings in coronal loops
Zuo, Xiuhui; Huang, Zhenghua; Wei, Hengyuan; Xia, Lidong; Liu, Weixin

TWT-277 E2.1-0043-24

Revised Point-Spread Functions for SDO/AIA
Hofmeister, Stefan; Hahn, Michael; Savin, Daniel W.

TWT-278 E2.1-0044-24

IRIS Observations of Off-limb Chromosphere: Coronal Hole and Quiet Sun Regions
Tei, Akiko; Gunár, Stanislav; Okamoto, Joten

TWT-279 E2.1-0045-24

Statistical study on the magnetic properties of small-scale loops in the quiet Sun
Madjarska-Theissen, Maria; Wiegelmann, Thomas; Galsgaard, Klaus; Demoulin, Pascal

TWT-280 E2.1-0046-24

Formation of a streamer blob via merging multiple plasma clumps below 2 solar radii
Huang, Zhenghua; Deng, Kaiwen; Li, Haiyi; Fu, Hui; Xia, Lidong; Song, Hong-Qiang; Xiong, Ming; Wei, Hengyuan; Qi, Youqian; Zhang, Chao

Tue, Jul 16, 2024

E2.2 Energy and mass transport of small scales in the low solar atmosphere

Main Scientific Organizer: Lim, Eun-Kyung
Deputy Organizer: De Pontieu, Bart

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-281 E2.2-0036-24
Small loop activities observed in He I D3 line by using the GST
Kim, Yeon-Han; Bong, Su-Chan; Lim, Eun-Kyung; Yang, Heesu; Yurchyshyn, Vasyl

TWT-282 E2.2-0037-24
An Optically Thin View of the Solar Chromosphere from Observations of the O I 135.5 nm Spectral Line
De Pontieu, Bart; Carlsson, Mats

TWT-283 E2.2-0038-24
Penumbra formation by settling of magnetic field lines observed by GST
Schmieder, Brigitte; Zhao, Jie; Zhu, Xiaoshuai; Li, Hui; Cao, Wenda; Yang, Xu

TWT-284 E2.2-0039-24
Chromospheric Alfvénic Waves and Their Connection to Solar Abundance Fractionation in an Active Region
Lee, Kyoung-Sun; Chae, Jongchul; Kwak, Hannah; Lee, Kyeore

TWT-285 E2.2-0040-24
On the onset of a coronal jet through MHD simulation
Nayak, Sushree Sangeeta

Tue, Jul 16, 2024

E2.3 Plasma and Magnetic Field Coupling in Solar Prominences

Main Scientific Organizer: Gunár, Stanislav
Deputy Organizer: Schmieder, Brigitte

High-resolution imaging, spectroscopic and spectro-polarimetric observations.

Chair: Schmieder, Brigitte
Room: CON-105

E2.3-0001-24 11:00 - 11:30 (solicited)
Multi-instrument observations of prominences and filaments with Solar Orbiter: what we learn by flying close to the Sun and away from Earth
Janvier, Miho

E2.3-0002-24 11:30 - 11:45
Localised kinematics of prominence eruptions using the Rolling Hough Transform.
Birch, Harry; Regnier, Stephane; Morton, Richard

E2.3-0003-24 11:45 - 12:00
Observations of a Failed Solar Filament Eruption Involving External Reconnection
Chen, Yuehong; Cheng, Xin; Chen, Jun; Dai, Yu; Ding, Mingde

E2.3-0004-24 12:00 - 12:15
Three-dimensional Kinematics of the Solar Filament Eruptions Detected by CHASE
Qiu, Ye

E2.3-0005-24 12:15 - 12:30
Role of Small-Scale Dynamics in a Solar Prominence Eruption
Mishra, Sudheer; Asai, Ayumi

Coffee Break

High-resolution imaging, spectroscopic and spectro-polarimetric observations.

Chair: Schmieder, Brigitte
Room: CON-105

E2.3-0006-24 15:00 - 15:30 (solicited)
Observation of Small Amplitude Waves in Solar Prominences
Ichimoto, Kiyoshi; Hashimoto, Yuki; Huang, Yuwei; Shirato, Haruhi; Asai, Ayumi; Ueno, Satoru; Yamasaki, Daiki

E2.3-0007-24 15:30 - 15:45
Formation and evolution of solar prominence bubbles and plumes observed by NVST
Wang, Wensi; Liu, Rui

E2.3-0008-24 15:45 - 16:00
What is the physical nature of the so-called prominence tornadoes?
Gunár, Stanislav; Labrosse, Nicolas; Luna, Manuel; Schmieder, Brigitte; Heinzel, Petr; Kucera, Therese; Levens, Peter; Lopez Ariste, Arturo; Mackay, Duncan; Zapior, Maciej

E2.3-0009-24 (WITHDRAWN) 16:00 - 16:30 (solicited)
Observational methods of determining the magnetic field in prominences and their environments
Kucera, Therese

Lunch Break

Diagnostics of prominence plasma and magnetic field conditions and radiative transfer modelling.

Chair: Jerčić, Veronika
Room: CON-105

E2.3-0010-24 17:00 - 17:30 (solicited)
Recent progress in spectral diagnostics and radiative-transfer modeling of solar prominences
Heinzel, Petr

E2.3-0011-24 17:30 - 17:45

The formation and interpretation of complex Mg[U+026A][U+026A] h&k line profiles through 2D multithread prominence modelling
Peat, Aaron; Labrosse, Nicolas

E2.3-0012-24 17:45 - 18:00

Plasma diagnostics in solar prominence fine structures based on Halpha and MgII observations and theory
Schmieder, Brigitte; Barczynski, Krzysztof; Labrosse, Nicolas; Peat, Aaron

E2.3-0013-24 18:00 - 18:15

Mixing induced cooling in the solar atmosphere
Snow, Ben; Hillier, Andrew

E2.3-0014-24 (WITHDRAWN) 18:15 - 18:30

Spectral inversion of prominence observations from ALMA, IRIS Mg II and MSDP H-alpha
Berlicki, Arkadiusz; Jejcic, Sonja; Heinzel, Petr; Bárta, Miroslav; Barczynski, Krzysztof; Rudawy, Pawel; Radziszewski, Krzysztof; Schmieder, Brigitte; Gunár, Stanislav

Tue, Jul 16, 2024

E2.3 Plasma and Magnetic Field Coupling in Solar Prominences

Main Scientific Organizer: Gunár, Stanislav
Deputy Organizer: Schmieder, Brigitte

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-286 E2.3-0035-24

Solar prominence diagnostics and their associated estimated errors from 1D NLTE MgII h&k modelling
Peat, Aaron; Labrosse, Nicolas; Schmieder, Brigitte; Barczynski, Krzysztof

TWT-287 E2.3-0036-24

Study of Cool Loops through 2D NLTE Modelling
Peat, Aaron; Heinzel, Petr; Berlicki, Arkadiusz; Mikuła, Katarzyna

Tue, Jul 16, 2024

E2.4 Application of Machine Learning Techniques in Solar and Heliospheric Physics

Main Scientific Organizer: Chifu, Iulia
Deputy Organizer: Gafeira, Ricardo

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-288 E2.4-0025-24

Coronal Hole Detection and Tracking with Machine Learning Methods
Liu, Junyan; Shen, Chenglong; Chi, Yutian; Mao, Dongwei; Zhong, Zhihui; Zhang, Zhiyong

TWT-289 E2.4-0026-24

Near-real time 3D coronal magnetic field reconstruction in various solar active regions using a deep learning model
Kang, Jihye; Jeong, Hyun-Jin; Moon, Yong-jae

Tue, Jul 16, 2024

E2.5 Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind

Main Scientific Organizer: van Doorsselaere, Tom
Deputy Organizer: Li, Bo

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-290 E2.5-0031-24

Resonant damping of MHD body modes under photospheric conditions
Yu, Dae Jung

TWT-291 E2.5-0032-24

Damped kink motions in a system of two solar coronal tubes with elliptic cross-sections
Li, Bo; Shi, Mijie; Chen, Shao-Xia; Yu, Hui; Guo, Mingzhe

TWT-292 E2.5-0033-24

The Splitting of Peaks of Umbral Oscillation Power and the Height of the Transition Region
Kang, Soosang; Chae, Jongchul

Tue, Jul 16, 2024

E2.6 Developments and Applications of the Solar Magnetic Field Modelling

Main Scientific Organizer: Zhu, Xiaoshuai
Deputy Organizer: Zhao, Jie

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-293 E2.6-0022-24
Change Ratios of Magnetic Helicity and Magnetic Free Energy During Major Solar Flares
Wang, Quan; Zhang, Mei; Yang, Shangbin; Yang, Xiao; Zhu, Xiaoshuai

TWT-294 E2.6-0023-24
Structure and Evolution of an Inter–Active Region Large-scale Magnetic Flux Rope
Duan, Aiying

TWT-295 E2.6-0024-24
Construction of Nonlinear Force-Free Fields in the Poloidal-Toroidal Formulation in a Spherical Geometry
Yi, Sibaek; Choe, Gwangson; Kim, Sunjung; Lee, Minseon

TWT-296 E2.6-0025-24
Solar interior currents presumed by solar surface magnetic fields
Kim, Bogyeong; Yi, Yu

TWT-297 E2.6-0026-24
A Novel Database of 3D Magnetic Loop Models as a Tool for Flare Analysis: Case Study of the GOES C6.2 Flare on 27 October 2003
Cuambe, Valente; Costa, Joaquim; Simões, Paulo

TWT-298 E2.6-0027-24
Data-driven modeling of the “puzzling” NOAA Active Region 12665 using AI-generated boundary input (SuperSynthIA)
Kang, Yeongmin; Kaneko, Takafumi; Leka, K D; Cabezas, Denis Pavel; Fouhey, David; Wang, Ruoyu; Kusano, Kanya

TWT-299 E2.6-0028-24
A model of failed solar eruption initiated and destructed by magnetic reconnection
Jiang, Chaowei

Tue, Jul 16, 2024

E2.7 Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology

Main Scientific Organizer: Ofman, Leon
Deputy Organizer: Lee, Dong-Hun

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-300 E2.7-0011-24
Case studies of wave propagation along coronal streamers resulting from coronal mass ejection - streamer interactions
Khabarova, Olga; Ofman, Leon; Heifetz, Eyal

Tue, Jul 16, 2024

F0.2 International Life Support Panel

Main Scientific Organizer: Audas, Chloe
Deputy Organizer: Poulet, Lucie

INTERNATIONAL LIFE SUPPORT PANEL

Chair: Audas, Chloe
Room: EC1-212

F0.2-0001-24 09:00 - 09:30 (solicited)
INTERNATIONAL LIFE SUPPORT PANEL
Poulet, Lucie; Audas, Chloe; Verseux, Cyprien

F0.2-0002-24 09:30 - 10:00 (solicited)
INTERNATIONAL LIFE SUPPORT PANEL - Part 2
Poulet, Lucie; Audas, Chloe; Verseux, Cyprien

F0.2-0003-24 10:00 - 10:30 (solicited)
INTERNATIONAL LIFE SUPPORT PANEL - Part3
Poulet, Lucie; Audas, Chloe; Verseux, Cyprien

Tue, Jul 16, 2024

F1.1 Gravity Perception and Response in Plants and Fungi: Ground and Space Studies

Main Scientific Organizer: Wolverton, Chris
Deputy Organizer: Kiss, John Z.

Room: EC1-211

F1.1-0001-24 09:00 - 09:20

Hydrotropism vs. gravitropism in roots: how does Ca2+ signaling play a role in hydrotropism?
Takahashi, Hideyuki; Takahashi, Kaori; Kobayashi, Akie; Fujii, Nobuharu

F1.1-0002-24 09:20 - 09:40

Polar localization of LAZY1-LIKE proteins links gravity sensing to signaling
Morita, Miyo; Nishimura, Takeshi; Shikata, Hiromasa; Mori, Shogo; Higaki, Takumi; Toyota, Masatsugu

F1.1-0003-24 09:40 - 10:00

Machine-learning-assisted segmentation of the rhizoid architecture of Physcomitrium patens grown in space using X-ray micro-CT
Karahara, Ichirou; Yagihara, Naoki; Wakabayashi, Takahisa; Yamaura, Ryohei; Tamaoki, Daisuke; Kamachi, Hiroyuki; Yamauchi, Daisuke; Mineyuki, Yoshinobu; Hoshino, Makoto; Uesugi, Kentaro; Shimazu, Toru; Kasahara, Haruo; Suzuki, Tomomi; Hiwatashi, Yuji; Hanba, Yuko, T.; Kume, Atsushi; Fujita, Tomomichi

F1.1-0004-24 10:00 - 10:15

Greater effective gravity enhanced photosynthesis of bryophytes mediated by genetic adaptation
Hanba, Yuko, T.; Takemura, Kaori; Kitajima, Sakihito; Vyacheslavova, Alisa; Beier, Marcel Pascal; Yokoi, Maki; Yamashita, Yuki; Shinozawa, Akihisa; Maeda, Ayuko

F1.1-0005-24 (WITHDRAWN) 10:15 - 10:30

Combined physiological and transcriptomic assessment of Arabidopsis differentiates the wild type and starchless response across a range of gravity treatments
Wolverton, Chris; Canaday, Emma; Kruse, Colin; Meyers, Alexander; Wyatt, Sarah

Tue, Jul 16, 2024

F1.2 Space Microgravity Environment Utilization

Main Scientific Organizer: Choi, Gi Hyuk
Deputy Organizer: Lee, Joo-Hee

Room: EC1-211

F1.2-0013-24 11:00 - 11:15

Thermal expansion mechanism of elemental liquids
Wang, Lei; Cho, Yong Chan; Lee, Yun-Hee; Lee, Geun Woo

F1.2-0014-24 11:15 - 11:30

Altered gravity force hinders proper development of dendritic structures in C. elegans
Moon, Je-Hyun; Lee, Jin I.

F1.2-0015-24 11:30 - 11:45

Microgravity and aging's impact on synaptic activity in Caenorhabditis elegans
Hwang, Jong-In; Alcantara, Alfredo Jr.; Moon, Je-Hyun; Hashizume, Toko; Higashibata, Akira; Higashitani, Atsushi; Lee, Jin I.

F1.2-0016-24 11:45 - 12:00

Development of a Space Biology Payload BioCabinet(stem cell bio 3D printing and 3D cell culture system) mounted on the CAS500-3
Lee, Ji Seung; Park, Chanhum; Kim, Soon Hee; Kim, Kyunghee; Ajiteru, Olatunji; Kim, Sol; Lee, Chul Hee

F1.2-0017-24 12:00 - 12:15

Evaluating the impact of simulated microgravity of a Random Positioning Machine on the stability of emulsions via non-numerical fluid-dynamic correlations
Schmidt, Svenja; Adebowale, Modupe; Rebrov, Evgeny; Fisk, Ian; Hessel, Volker

F1.2-0018-24 12:15 - 12:30

Impact of Space Microgravity on C. elegans Immunity: Insights from Enterobacter Colonization and MAPK/PMK-1 Signaling
Alcantara, Alfredo Jr.; Kim, Ban-Seok; Hashizume, Toko; Higashibata, Akira; Higashitani, Atsushi; Szewczyk, Nathaniel; Etheridge, Timothy; Mitchell, Robert; Lee, Jin I.

Coffee Break

Room: EC1-211

F1.2-0019-24 15:00 - 15:15

Precise density measurements of refractory metals over 3000 K: Revisiting UV imaging technique at ultrahigh temperatures
Wang, Lei; Cho, Yong Chan; Le, Nhat Thi Huu; Lee, Yun-Hee; Lee, Geun Woo

F1.2-0020-24 15:15 - 15:30

Influence of Ambient Temperature and Inter-Droplet Spacing on Cool Flame Spread Limit Around Fuel Droplet Array
Takahata, Yusei; Iemura, Kazuki; Saito, Masanori; Tanabe, Mitsuaki

F1.2-0021-24 15:30 - 15:45

Multiple crystallization pathways of the aqueous solution droplet on electrostatic levitator: Ostwald's step rule
Cho, Yong Chan; Wang, Lei; Lee, Yun-Hee; Lee, John; Lee, Geun Woo

F1.2-0022-24 15:45 - 16:00

Development of space experiment mission for the Korea's second astronaut and development of Korean LEO space experiment module and transport spacecraft
Choi, Gi Hyuk

F1.2-0023-24 16:00 - 16:15

Integration of Soft Matter Electrostatic Levitator with Scattering Techniques to Indentify the Mechanism of Complex Nucleation
Lee, John; Berg, Brayden; Katamreddy, Sai; Obaid, Fahad; Yi, Yonghwa; Seo, Gilbeom; Benmore, Chris; Quirinale, Dante; Frontzek, Matthias; Debeer-Schmitt, Lisa; Egami, Takeshi; Cho, Yong Chan; Lee, Geun Woo

F1.2-0024-24 16:15 - 16:30

Instability and Jetting of a Charged Liquid Drop in a Strong Electric Field
Lee, John; Obaid, Fahad; Wang, Lei; Cho, Yong Chan; Lee, Geun Woo

Tue, Jul 16, 2024

F1.2 Space Microgravity Environment Utilization

Main Scientific Organizer: Choi, Gi Hyuk
Deputy Organizer: Lee, Joo-Hee

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-301 F1.2-0025-24
A Study on System Design of Air Management system for Undersea Space Platform
Kim, Younkyu; Lee, Joo-Hee

Tue, Jul 16, 2024

F2.1 Biological Effects of Space Radiation and Co-stressors

Main Scientific Organizer: Hellweg, Christine
Deputy Organizer: Schroeder, Insa Sigrid

Plattforms, Models and Data for Space Radiobiology

Chair: Costes, Sylvain
Room: EC1-212

F2.1-0009-24 11:00 - 11:20 (solicited)
The Environmental Data Application for Analysis of Space Telemetry Data
Uriarte Acuna, Ana; Costes, Sylvain; Grigorev, Kirill; Bales, Jamie; Lopez, Danielle; Sanders, Lauren; Gebre, Samrawit

F2.1-0010-24 11:20 - 11:40
Comparative study of the ICRP quality factor and the relative biological effectiveness for the HZE particles
Naito, Masayuki; Kodaira, Satoshi

F2.1-0011-24 11:40 - 12:00
Genetically Encoded Cellular Sensors for Detecting Live Responses to Radiation: Towards Automating Biology Experiments for Flight
Hinshaw, Robert; Hebisch, Matthias; Arian, Rebecca; Costes, Sylvain; Sowa, Marianne; Cekanaviciute, Egle

F2.1-0012-24 12:00 - 12:15
Exploring the Radiobiological Implications of Solar Flares Beyond Low Earth Orbit: A Literature Review and Taxonomy Development Using KPIs
Bartoloni, Alessandro; Tng, Faith; Strigari, Lidia

F2.1-0013-24 12:15 - 12:30
EXPLORING ANSTO'S ACCELERATOR CAPABILITIES AND RADIOBIOLOGY RESEARCH ON SPACE RADIATION
Ferlazzo, Melanie; Howell, Nicholas; Zahra, David; Peracchi, Stefania; Ryan, Middleton; Liu, Guo Jun; Pastuovic, Zeljko; Foray, Nicolas

Coffee Break

Organ-Specific and Combined Effects of Spaceflight Environmental Factors

Chair: Deloch, Lisa
Room: EC1-212

F2.1-0014-24 15:00 - 15:20
Degenerative effects of long-distance space travel on the mouse retina
Nemec-Bakk, Ashley Team: UAMS p. 460

F2.1-0015-24 15:20 - 15:40
VIsual System Activation by Ionizing Radiation (VISAIR): testing the exposure of the ex-vivo whole rabbit eye as a new experimental model
Mentana, Alice; Baiocco, Giorgio; Guardamagna, Isabella; Ilaria, Ombretta; Lonati, Leonardo; Boretti, Virginia; Lunati, Luca; Santi Amantini, Giorgia; Di Fino, Luca; Beninati, Simone; Borromeo, Ilaria; Paci, Maurizio; Sannita, Walter; Pullia, Marco; Facoetti, Angelica; Rizzo, Alessandro; Narici, Livio

F2.1-0016-24 15:40 - 15:55
Unraveling astrocyte behavior in the space brain: Radiation response of primary astrocytes
Roggan, Marie Denise; Hellweg, Christine; Kronenberg, Jessica; Wollert, Esther; Hoffmann, Sven; Nisar, Hasan; Konda, Bikash; Diegeler, Sebastian; Liemersdorf, Christian

F2.1-0017-24 15:55 - 16:10
COGNITIVE BEHAVIORAL ALTERATION INDUCED BY LOW AMOUNT OF PROTON
Kim, Gyutae; Sultana, Marium; Chang, Hui Ho Vanessa; Kim, Kyu-Sung

F2.1-0018-24 16:10 - 16:30
Human Airway Responses to Simulated Spaceflight Stressors
Wijesekara, Piyumi; Lile, Katarina; Schwertz, Hansjorg; Costes, Sylvain; Cekanaviciute, Egle

Tue, Jul 16, 2024

F2.1 Biological Effects of Space Radiation and Co-stressors

Main Scientific Organizer: Hellweg, Christine
Deputy Organizer: Schroeder, Insa Sigrid

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-302 F2.1-0019-24

Assessing Synergistic Cognitive Effects of Hypergravity and Proton Radiation in a Ground-Based Rat Model
Chang, Hui Ho Vanessa; Sultana, Marium; Kim, Gyutae; Kim, Kyu-Sung; Britten, Richard

F2.1-0020-24 (WITHDRAWN)

Diffusion-based data augmentation for dicentric chromosome discrimination using deep convolutional neural network
Kwon, Soon Woo; Seong, Ki Moon; Lee, Yang Hee; Yoon, Hyo Jin; Yang, Su San

TWT-304 F2.1-0021-24

Space Radiation Effects on Human Physiology and Performance
Welker, Madeline; Simmons, Kevin

F2.1-0022-24 (WITHDRAWN)

A study on fog enhanced airborne bacteria detecting pathogenicity over Central Indo-Gangetic Plain, India
Saikh, Shahina Raushan; das, Sanat Kumar

Tue, Jul 16, 2024

F2.4 Genetic Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight

Main Scientific Organizer: Sun, Yeqing
Deputy Organizer: Wu, Honglu

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-306 F2.4-0017-24

ROLE OF PIEZO1 IN T CELL ACTIVATION UNDER SIMULATED MICROGRAVITY
Wu, Honglu; Moreno-Villanueva, Maria; Crucian, Brian

TWT-307 F2.4-0018-24

Domestication of radiation sensitive Caenorhabditis elegans strains suitable for liquid culture systems in long-term space missions
Yuan, Shuqi; Wang, Wei; Liu, Yuanyuan; Liang, Zheng; Zhao, Lei; Zhong, Runtao; Sun, Yeqing

Tue, Jul 16, 2024

F3.1 Chemical Complexity of Molecular Universe

Main Scientific Organizer: das, Ankan
Deputy Organizer: Puzzarini, Cristina

Observations

Chair: Garrod, Rob
Room: EC1-213

F3.1-0017-24 09:00 - 09:30 (solicited)

Complex Organic Molecules in the Cold and Warm Dense Cores in the Orion Molecular Complex
Liu, Sheng-Yuan; Hsu, Shih-Ying; Liu, Tie; Liu, Xunchuan Team: ALMASOP Team p. 446

F3.1-0018-24 09:30 - 09:50

Witnessing the birth of a binary
Lin, Sheng-Jun; Sahu, Dipen; Liu, Sheng-Yuan; Pagani, Laurent; Hsieh, Tien-hao; Lai, Shih-Ping; Hirano, Naomi; Liu, Tie

F3.1-0019-24 09:50 - 10:10 (solicited)

Chemistry within asymmetric AGB outflows and their disks
van de Sande, Marie

F3.1-0020-24 10:10 - 10:30 (solicited)

The impact of evolved stars on the Galactic chemical enrichment
Saberi, Maryam

Coffee Break

Model/Theory

Chair: Furuya, Kenji
Room: EC1-213

F3.1-0021-24 11:00 - 11:30 (solicited)

Astrochemical models of interstellar ices: history matters
Wakelam, Valentine Team: IceAge-Fr p. 452

F3.1-0022-24 11:30 - 11:50

Noble gas species in space
das, Ankan; Sil, Milan; Bhat, Bratati; Gorai, Prasanta

F3.1-0023-24 11:50 - 12:10 (solicited)

Impact of CO ices in the production of interstellar complex organic molecules in prestellar cores
Molpeceres de Diego, Germán; Furuya, Kenji; Aikawa, Yuri

F3.1-0024-24 12:10 - 12:30

NLTE Analysis of SO in Star-forming Regions
Zhang, Ziwei; Sakai, Nami; Stancil, Phillip

Lunch Break

Model/Theory

Chair: Wakelam, Valentine
Room: EC1-213

F3.1-0025-24 15:00 - 15:30 (solicited)

Chemical modeling of extreme methyl formate to glycolaldehyde (MF:GA) ratios in hot cores: gas-grain interactions at high temperature
Garrod, Robin; Shope, Brielle

F3.1-0026-24 15:30 - 15:50
The Composition of Ice Mantles in Dark Clouds: Stochastic Simulations of Gas-grain Chemistry
Dufour, Gwenaelle

F3.1-0027-24 15:50 - 16:10
Carbon Isotope Fractionation of Complex Organic Molecules in Star-Forming Cores
Ichimura, Ryota; Nomura, Hideko; Furuya, Kenji

F3.1-0028-24 16:10 - 16:30
A model for explosive desorption of multi-component ice mantle
Jin, Miwha; Charnley, Steven

Coffee Break

Experiment
Chair: Taniguchi, Kotomi
Room: EC1-213

F3.1-0029-24 09:00 - 09:30 (solicited)
Tracking radical reactions on the surface of ice dust analogues to elucidate COMs formation
Ishibashi, Atsuki; Hidaka, Hiroshi; Oba, Yasuhiro; Watanabe, Naoki

F3.1-0030-24 09:30 - 09:50
Photochemistry of amino acids in extraterrestrial environments and applications for low Earth orbit experiments: VUV and mid-UV photoabsorption cross section of thin films of alanine and glycine
Pastore, Juliette; Cottin, Hervé; Saiagh, Kafila; Bellila, Jodie; Essani, Mouad; Stalport, Fabien; Carrasco, Nathalie

F3.1-0031-24 09:50 - 10:10
Determining the methanol deuteration in the disk around V883 Orionis with laboratory measured spectroscopy
Zeng, Shaoshan; Jeong, Jae-Hong; Oyama, Takahiro; Lee, Jeong-Eun; Sakai, Nami

F3.1-0032-24 (WITHDRAWN) 10:10 - 10:30
Mineralogy of interstellar dust in the X-ray regime
Psaradaki, Ioanna

Tue, Jul 16, 2024

F3.1 Chemical Complexity of Molecular Universe

Main Scientific Organizer: das, Ankan
Deputy Organizer: Puzzarini, Cristina

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-308 F3.1-0033-24
Chemical evolution of complex organic molecules in low-mass star-forming regions
Bhat, Bratati; Kar, Rumela; Mondal, Suman Kumar; Ghosh, Rana; Gorai, Prasanta; Shimonishi, Takashi; Tanaka, Kei; Furuya, Kenji; das, Ankan

TWT-309 F3.1-0034-24
SO and SO2 as evolutionary tracers of low-mass star-forming region
Ghosh, Rana; das, Ankan; Gorai, Prasanta; Mondal, Suman Kumar; Furuya, Kenji; Tanaka, Kei; Shimonishi, Takashi

Tue, Jul 16, 2024

F3.2 Astrobiology and Exploration

Main Scientific Organizer: Rettberg, Petra
Deputy Organizer: Antunes, André

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-310 F3.2-0016-24
On the stochastic processes of the interstellar travels of the Extraterrestrials and formulations to estimate the minimum and maximum lengths of a stochastic process of the interstellar travels of the Extraterrestrials
Belen, Selma-Christina; Weber, Gerhard-Wilhelm; Carter, Brad

TWT-311 F3.2-0017-24
Spatial Daisyworld as a Simple Model of Habitability for Exoplanets with Variable Insolation
Karelin, Georgii

TWT-312 F3.2-0018-24
Introduction to UV Exposure Sample Units of China Space Station
Wang, Chao; Zhang, Meng; Chenyang, Zhao; Liu, Bing

F3.2-0019-24 (WITHDRAWN)
The Mars Microbial Survival Model: Determining Bioload Reductions on Landed Spacecraft
Bischof, Grace; Ordinaria, Ruella; Moores, John; Schuerger, Andrew

TWT-314 F3.2-0020-24
Advancing Spectroscopic Analysis of Large Molecules in Space: A Master Project in Astrochemistry
Horvat, Ivan; Fazel Hesar, Fatemeh; Foing, Bernard H.; Balfe, Molly; Robertson, Caitlin; Laffey, Jack; Harvey, Matthew

Tue, Jul 16, 2024

F4.1 Advances in Life Support Technologies and Test Bed Facilities

Main Scientific Organizer: Verseux, Cyprien
Deputy Organizer: Poulet, Lucie

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-315 F4.1-0021-24
Biomining: Metal Extraction for In Situ Resource Utilization of Lunar Minerals
Seto, Emily; Bouey, Natasha; Bywaters, Kathryn; Gabrielli, Paolo; Hubbard, Kevin; Zacny, Kris

TWT-316 F4.1-0022-24
An Analysis of the Use of Plastic Degradation by Microbes in Orbit
Gollarza, Santiago; Simmons, Kevin

TWT-317 F4.1-0023-24
Hydrogels as a growth substrate for plant cultivation in space and regolith-based agriculture.
Miklave, Nicholas; Hasenstein, Karl H.

TWT-318 F4.1-0024-24
EDEN 2.0 greenhouse design study for Neumayer Station III in Antarctica
Kim, Kyunghwan; Bunchek, Jess; Schubert, Daniel; Vrakking, Vincent; Dorn, Markus; Philpot, Claudia

TWT-319 F4.1-0025-24
From Cyanobacterium to Biostimulant: L. indica in Space Agriculture
Renaud, Cécile; Wattiez, Ruddy

TWT-320 F4.1-0026-24
Current status and Prospect of Life Support System Development in KARI
Lee, Joo-Hee; Kim, Younkyu; Choi, Gi Hyuk

F4.1-0027-24 (WITHDRAWN)
Siderophilic Cyanobacteria Linking In-situ Resources Utilization and Biological Life Support Systems
Brown, Igor

Tue, Jul 16, 2024

F4.2 Influence of Spaceflight Environments on Biological Systems

Main Scientific Organizer: Nechitailo, Galina S.
Deputy Organizer: Kondyurin, Alexey

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-321 F4.2-0013-24
Global approach to modelling ecosystems in Space: Insights from the SCAMPI Project
Soulier, Guillaume; Carrico, Jordan; Ben Slimane, Tarek Team: SCAMPI p. 457

TWT-322 F4.2-0014-24
A wearable-based system to reduce space motion sickness by multi-sensory pre-habituation
Vollette, Carole-Anne; Bockisch, Christopher; Straumann, Dominik; Bertolini, Giovanni

Tue, Jul 16, 2024

F4.3 Space Food and Nutrition

Main Scientific Organizer: Katayama, Naomi
Deputy Organizer: Kitaya, Yoshiaki

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-323 F4.3-0013-24
Exploring the Past and Future of Korean Space Food Development
Hong, Jung Sun; Kim, Ha Ram; Chun, Yong Gi; Sung, Jung Min; Kim, Bum Keun

TWT-324 F4.3-0014-24
Do moss plants dream of space pioneers? : The extreme stress tolerance of the moss, Physcomitrium patens
Maeng, Chang-Hyun; Nakamura, Keita; Takahashi, Sayaka; Mita, Hajime; Yoshida, Kumi; Shimamura, Masaki; Kume, Atsushi; Hiwatashi, Yuji; Fujita, Tomomichi

Tue, Jul 16, 2024

F5.2 Exploring the Space Exposome and Approaches for Assessing Spaceflight-Associated Human Health Risks

Main Scientific Organizer: Huff, Janice
Deputy Organizer: Laiakis, Evagelia; Werneth, Charles

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-325 F5.2-0019-24
NASA Open Science Data Repository for Space Biology Data Access
Saravia-Butler, Amanda; Scott, Ryan; Lopez, Danielle; Sanders, Lauren; Gebre, Samrawit; Costes, Sylvain

TWT-326 F5.2-0020-24
Architectural Properties' Impact on Cognition – Ground Studies and Space Implementation
Magkos, Michail; Forsman, Mikael; Elçadi, Guilherme Team: APISC - ICE - KTH p. 448

TWT-327 F5.2-0021-24
Detection of butyrate content in feces based on microbial sensors for monitoring intestinal health under microgravity environment
Wu, Ruipeng; Li, Zhuohan; Liu, Lingying; Lin, Fankai

TWT-328 F5.2-0022-24
The Space Medicine Educational Program in Japan
Terada, Masahiro

Tue, Jul 16, 2024

G0.1 Gravitational Effects on Physico-Chemical Processes

Main Scientific Organizer: Porter, Jeff
Deputy Organizer: Yano, Taishi

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-329 G0.1-0013-24
Control of quasi-equilibrium state of annular flow through reinforcement learning
Duan, Li; Kang, Qi

TWT-330 G0.1-0014-24
Soot properties of non-buoyant laminar diffusion flames with the addition of physical and chemical agents
Wang, Shuangfeng; Zhu, Feng

TWT-331 G0.1-0015-24
The Mechanism of Droplet Thermocapillary Migration Coupled with Multi-Physical Fields
Ye, Zhijun; Chen, Yi; Yang, Chao; Duan, Li; Kang, Qi

Tue, Jul 16, 2024

G0.2 Drop Tower Days

Main Scientific Organizer: Avila, Marc
Deputy Organizer: Könemann, Thorben

Fluid Dynamics

Chair: Könemann, Thorben
Room: EC1-317

G0.2-0013-24 09:00 - 09:15
Optimizing (Photo-)Electrolysis in Microgravity with Magnetohydrodynamic Forces: A Statistical Analysis Approach for Enhanced Efficiency
Akay, Ömer; Brinkert, Katharina; Romero-Calvo, Álvaro

G0.2-0014-24 09:15 - 09:30
Enhancing immersion cooling in microgravity environments
Chen, Tai-Jhen; Syu, Po-Yao; Lo, Ching-Wen; Chiang, Ya-Yu

G0.2-0015-24 09:30 - 09:45
The effect of bubble generation on the movement of the vapor-liquid interface in microgravity
Baek, Seungwhan; Oh, Hoongyo; Yu, Isang; Jo, Hangjin

G0.2-0016-24 09:45 - 10:00
Vapor Bubble Growth in Liquid Methane in a Microgravity Environment
Weber, Niklas; Dreyer, Michael

G0.2-0017-24 10:00 - 10:15
Experimental and Numerical Study on Liquid-Gas Interface Distribution inside an Accumulator under Microgravity
Du, Wang-Fang; He, Fa-Long; Wei, Lie; Lin, Hai; Li, Kai; Zhao, Jian-Fu

G0.2-0018-24 10:15 - 10:30
ZBOT-FT: Investigation of Liquid Removal in Microgravity using Screen Channel Liquid Acquisition Device
Shukla, Prithvi; Dreyer, Michael

Tue, Jul 16, 2024

G0.3 Influence of Free Space Environonment on the Behavior of Materials

Main Scientific Organizer: Kondyurin, Alexey
Deputy Organizer: Minow, Joseph

Room: EC1-317

G0.3-0001-24 11:00 - 11:15
Research on Atomic Oxygen erosion resistance materials
Kimoto, Yugo

G0.3-0002-24 11:15 - 11:30
Radiation Environments for Low Earth Orbit Space Stations
Minow, Joseph

G0.3-0003-24 11:30 - 11:45
Design, Test and Qualification of Components and Materials for Space Applications
Ibarra, Maria Lujan; Garcia-Scrigna, Javier Andres; Gonzalez Bisciglia, Laura Alejandra; Romanelli, Oscar Alberto; Carrero Lobo, Aneely Alejandra; Barrera, Marcela Patricia; Socolovsky, Hernan Pablo

G0.3-0004-24 11:45 - 12:00
Atomic Oxygen Effects on a Siloxane-Polyimide Block-Chain Copolymer with Potential Applications on Satellites in Very Low Earth Orbit
Goto, Aki; Jorge, Pedro; Xu, Chenbiao; Minton, Timothy K

G0.3-0005-24 12:00 - 12:15
Large interstellar spaceship with immortal crew
Kondyurin, Alexey

Tue, Jul 16, 2024

G0.3 Influence of Free Space Environonment on the Behavior of Materials

Main Scientific Organizer: Kondyurin, Alexey
Deputy Organizer: Minow, Joseph

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-332 G0.3-0006-24
Radiation Qualification Process for a Non-RHA Commercial Off the Shelf (COTS) [Case Study]
Albakri, Ahmad; Alsubaihi, Abdullah; Albakri, Meteb

TWT-333 G0.3-0007-24
Quantifying the Effects of Electron Shot Noise on a Current Biased Antenna
Ember, Winry; Pulupa, Marc; Bale, Stuart

TWT-334 G0.3-0008-24
Curing composite material in stratosphere
Kondyurin, Alexey; Chudinov, Viacheslav; Terpugov, Viktor

Tue, Jul 16, 2024

G0.4 Advanced Materials and their Technologies for Space Exploration

Deputy Organizer: Anastasiadis, Spiros

Room: EC1-317

G0.4-0001-24 15:00 - 15:15
Characteristics of Dynamic Tool Influence Function on Space Optical Material Substrates using Orthogonal Velocity Tool
Lee, Jiwoo; Han, Jeong-Yeol; Jeong, Jaejin; Doo, Wonjae; Ahn, Kyohoon; Cho, Myung; Ho, Kevin; Nagata, Shinobu; Himeno, Hidehito; Kamiura, Masatsugu

G0.4-0002-24 15:15 - 15:30
Study, manufacturing and testing of Ariel's M1 aluminum mirror and its Flexure Hinges
D'anca, Fabio; Guerriero, Elisa; Scippa, Antonio; Tozzi, Andrea; Pace, Emanuele; Micela, Giuseppina; Collura, Alfonso; Gottini, Daniele; Lilli, Riccardo; Zuppella, Paola; Chioetto, Paolo

G0.4-0003-24 15:30 - 15:45
Thermal Radiation Control using Polymer Composites and Hollow Microspheres
Lee, Jaeho

G0.4-0004-24 15:45 - 16:00
RadEx: total dose multilayer radiation shielding experiment onboard CORBES Foresail-2/3 satellites
Fetzer, Anton; Praks, Jaan; Anger, Marius; Eritja Olivella, Antoni

G0.4-0005-24 16:00 - 16:15
Carbon materials for multipactor suppression in high power radio frequency equipment
Alagappan, Palaniappan

G0.4-0006-24 16:15 - 16:30
IMPROVING THE CAPTURE EFFICIENCY OF LOW-VELOCITY IMPACT PARTICLES WITH VERTICALLY ALIGNED CARBON NANO-TUBES
Morozumi, Seira; Yano, Hajime; Hirahara, Kaori; Hayashi, Kazuki; Hiraki, Yuta; Arai, Kazuyoshi

Coffee Break

Room: EC1-317

G0.4-0007-24 17:00 - 17:15
Improving Performance of Additively Manufactured Hybrid Rocket Fuel Grains through Post Processing Heat Treatment
Kang, Suk Jin; Gwynn, Jackee; Nance, Abigail

G0.4-0008-24 17:15 - 17:30
A large circular solar sail deployment
Kezerashvili, Roman; Kezerashvili, Vladimir

G0.4-0009-24 17:30 - 17:45
Integration of nanostructured sensor for the electrochemical detection of biomarkers: towards search for life in space
Mougin, Karine; Faye, Delphine; Keller, Marc; Launay, Jérome

G0.4-0010-24 (WITHDRAWN) 17:45 - 18:00
Development of Space grade custum magnetics
Han, Wooje; Kim, Kyunghee; Oh, Juhong; Son, Derac; Son, Dongsu; Jeong, Seongkeun

G0.4-0011-24 18:00 - 18:15
Analysis of Ablative material of thermal protection system for Reentry Capsule
Kim, Dae Yeong; Choi, Gi Hyuk

G0.4-0012-24 18:15 - 18:30
Initial Experimental Results of Static TIF on Cordierite and Aluminum Surfaces
Doo, Wonjae; Han, Jeong-Yeol; Lee, Jiwoo; Jeong, Jaejin; Cho, Myung; Ho, Kevin; Nagata, Shinobu; Hidehito, Himeno; Kamiura, Masatsugu

Tue, Jul 16, 2024

H0.2 Gravitation, Dark Energy and Matter

Main Scientific Organizer: Bertolami, Orfeu

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-335 H0.2-0009-24
Using Newtonian Gravitation giving results well from Universe level to Galaxy level to Solar system level to Earth level to Electron level to Energy level and to Nanobio Particle level now using SITA simulations
Naga Parameswara Gupta, Satyavarapu

TWT-336 H0.2-0010-24
Potential dark matter annihilation signals and the Very Large Area gamma-ray Space Telescope
Fan, Yi-Zhong

TWT-337 H0.2-0011-24
Unraveling the Mysteries of Dark Energy: Exploring the Origins of the Cosmos
Seyidova, Nubar

Tue, Jul 16, 2024

H0.3 Enabling Technologies for Fundamental Physics in Space

Main Scientific Organizer: McNamara, Paul
Deputy Organizer: Rasel, Ernst Maria

Room: EC1-216

H0.3-0001-24 15:00 - 15:20
Astrophysical and laboratory tests of the equality of active and passive gravitational mass
Laemmerzahl, Claus; Hackmann, Eva; Müller, Jürgen; Biskupek, Liliane; Singh, Vishwa Vijay; Lewis, Holly

H0.3-0002-24 15:20 - 15:40
Dynamic equivalence conditions for an air-bearing simulator emulating scaled drag-free control dynamics
Chen, Mingwei; Zhang, Chu; He, Jianwu; Yang, Chao; Duan, Li; Kang, Qi

H0.3-0003-24 15:40 - 15:55
Distribution of energy spectra of cosmic ray nuclei in the energy E = 1 MeV/nucleon to 1000 MeV/nucleon in spacecraft orbits
Grichshenko, Valentina; Baden, Alibi; Asemhan, Mukushev; Nurshan, Zikiryaev

H0.3-0004-24 (WITHDRAWN) 15:55 - 16:10
Diagnostic of overcritical Episodes observed in extragalactic GRBs using highest -energy Earth bound experiments
Bulanov, Sergei; Grittani, Gabriele Maria; Ruffini, Remo; Rueda Hernandez, Jorge Armando Team: ELIBL-ICRAnet p. 450

H0.3-0005-24 16:10 - 16:25
Search for dark particles as inflaton canditates with space and ground experiments
Lucia Aurelia, Popa

Tue, Jul 16, 2024

H0.4 Gravitational Waves

Main Scientific Organizer: Vallisneri, Michele
Deputy Organizer: Armano, Michele

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-338 H0.4-0011-24
CAS system design for LISA Mission
Chiritoi, Gabriel; Popescu, Eugeniu Mihnea; Popescu, Florin Adrian; Simionescu, Georgiana; Constantin, Florin Ioan; Cosac, Diana

TWT-339 H0.4-0012-24
Tests of the Space Electrostatic Accelerometer in Drop
Yu, Jianbo; Wang, Liang; Wu, Shuchao; Zhou, Zebing

TWT-340 H0.4-0013-24
Study on Micro-newton-scale Cold Gas Thruster and Thrust Performance
Yang, Chao; He, Jianwu; Duan, Li; Kang, Qi

Tue, Jul 16, 2024

H0.5 Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics

Main Scientific Organizer: Peron, Roberto
Deputy Organizer: Müller, Jürgen

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-341 H0.5-0016-24
The Calculation Method of SISA and its Initial Integrity Performance Evaluation for BDS-3
Cao, Yueling; Zhou, Shanshi; Qu, Weijing; Chen, Yanling

TWT-342 H0.5-0017-24
Precise Orbit Determination using Satellite Laser Ranging and Inter-satellite Link observations for BDS-3 satellites
Qu, Weijing; Huang, Yong

Tue, Jul 16, 2024

PCB.2 Small Satellites for Capacity Building

Main Scientific Organizer: Gabriel, Carlos
Deputy Organizer: Chandran, Amal

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-343 PCB.2-0013-24
Mission Planning and Scientific Applications of the Kinetic Optical Yaw Observer (KOYO) CubeSat Mission
Chiu, Yi-Chung; Wang, Yu-Shun; Chang, Loren

Tue, Jul 16, 2024

PE.1 Space Explorers in Schools - Empowering the Next Generation of Researchers

Main Scientific Organizer: Doran, Rosa
Deputy Organizer: Jeong, Haeim; Rojas, Gustavo

Room: EC1-314

PE.1-0001-24 11:00 - 12:30
Innovation and Inclusion in Education
Doran, Rosa

Coffee Break

Room: EC1-314

PE.1-0002-24 15:00 - 16:30
"You are Galileo!" Project; The educational use of assembled small astronomical telescope kit
Agata, Hidehiko

Lunch Break

Room: EC1-314

PE.1-0003-24 17:00 - 17:30
NASA's Science Mission Directorate
Fox, Nicola

PE.1-0004-24 17:30 - 18:30
Mars Analog Missions as a vehicle for STEM education
Groemer, Gernot; Doran, Rosa; Oezdemir-Fritz, Seda

Tue, Jul 16, 2024

PE.2 Current Trends, Initiatives And Research In Education And Outreach For Space Sciences

Main Scientific Organizer: Rojas, Gustavo
Deputy Organizer: Benitez Herrera, Sandra

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-344 PE.2-0017-24
Educators and learners as stewards of a sustainable future
Doran, Rosa; Rojas, Gustavo

TWT-345 PE.2-0018-24
Students as Planetary Defenders
Rojas, Gustavo; Doran, Rosa

TWT-346 PE.2-0019-24
Archives for Modern Korean Astronomy and Space Science
Choi, Youngsil; Cho, Kyung-Suk; Seo, Yoon Kyung; Kim, Roksoon

TWT-347 PE.2-0020-24
Development of a low-cost hardware-in-the-loop system for teaching estimation algorithms in satellite formations using COTS electronics
Forero, David; Rodríguez Polo, Óscar; Esteban, Segundo; Forero, Juan David

TWT-348 PE.2-0021-24
Space eco literacy as a public good for community enabling
Venkataramaiah, Jagannatha

TWT-349 PE.2-0022-24
Cosmic Classrooms: How Nurturing Curiosity and Engagement in Space Education will Ensure Tomorrow's Successful Space Exploration
Chaid, Rym

TWT-350 PE.2-0023-24
Egypt's Utilization of Space Applications for Development
Morcos, Abd El Fady

Tue, Jul 16, 2024

PEDAS.1 A Sustainable Space Exploration: from the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments

Main Scientific Organizer: Frueh, Carolin
Deputy Organizer: Pardini, Carmen

Detection, Tracking, Orbit Determination

Chair: Frueh, Carolin
Room: EC1-218

PEDAS.1-0001-24 09:00 - 09:15
Mitigating and Tracking Debris with Nanosatellites in Low Earth Orbit
Torocsik, Robert; Sprayregen, Dimitri; Simmons, Kevin

PEDAS.1-0002-24 09:15 - 09:30
An approach to the selection of spacecraft constellation parameters for the monitoring of space objects
Belyaev, Andrey; Gavrilova, Anastasiya; Koryanov, Vsevolod

PEDAS.1-0003-24 09:30 - 09:45
Optical measurements identification approach for its assignment to resident space objects
Gavrilova, Anastasiya; Belyaev, Andrey

PEDAS.1-0004-24 09:45 - 10:00
A review of IOD methods performances, in view of space debris observations from an orbiting spacecraft in sub-GEO or in LEO
Deleflie, Florent; Desoubrie, Baptiste; Berthier, Jerome; Tarone, Raffaele; Guiraud, Vincent

PEDAS.1-0005-24 10:00 - 10:30 (solicited)
Coordinate Effects on Space Object Tracking using a Novel Homotopic Bayesian Inference Approach
Demars, Kyle

Coffee Break

Space Object Characterization, Classifiation, and Imaging

Chair: Silha, Jiri
Room: EC1-218

PEDAS.1-0006-24 11:00 - 11:15
Dynamic Vision Camera Model for Exploitation of Space Situational Awareness Measurements
Frueh, Carolin; Nishiguchi, Masashi

PEDAS.1-0007-24 11:15 - 11:30
Automated alerting and trajectory extraction for mega constellations through machine learning from optical images
Liu, Liu; Sun, Rongyu

PEDAS.1-0008-24 11:30 - 11:45
Multi-color photometry and classfication for multi-platform GEO objects
Zhao, He

PEDAS.1-0009-24 11:45 - 12:00
Comparison of Low Earth Orbit (LEO) Resident Space Object (RSO) Artificial Intelligence (AI) Light Curve Classification Techniques
Qashoa, Randa; Lee, Regina

PEDAS.1-0010-24 12:00 - 12:15
Atitude Characterization of H2A Rocket Body from Light Curve Observations
Schildknecht, Thomas; Vananti, Alessandro; Lu, Yao

PEDAS.1-0011-24 12:15 - 12:30
Long-term monitoring of spaceweather effect on GEO satellites using photometric filters
Zigo, Matej; Silha, Jiri; Sabolova, Katarina

Lunch Break

Near-Earth Space, Object Characterisation, Reentry and Pollution

Chair: Flohrer, Tim

Room: EC1-218

PEDAS.1-0012-24 15:00 - 15:30 (solicited)

Concerning Mega-constellations, Space Waste, and our Atmosphere
Glassmeier, Karl-Heinz; Schulz, Leonard; Mitchell, Adam; Murphy, Daniel

PEDAS.1-0013-24 15:30 - 15:45

The increasing amount of human-made space objects re-entries into the Earth's atmosphere: thoughts on possible detrimental consequences
Pardini, Carmen; Anselmo, Luciano

PEDAS.1-0014-24 15:45 - 16:15 (solicited)

Radar Cross Section (RCS) Calculations Enabling Space Traffic Coordination (STC)
Mcknight, Darren

PEDAS.1-0015-24 16:15 - 16:30

Current Space Debris related Liability Compensation : Its Further Realistic Effective Ways To Remove based on Space Law
Lee, Jie-Hye

Coffee Break

Short Course: A guide to ESA tools supporting the assessment of compliance with space debris mitigation guidelines and regulation
Chair: Frueh, Carolin
Room: EC1-218

PEDAS.1-0016-24 09:00 - 09:30 (solicited)

Short Course: A guide to ESA tools supporting the assessment of compliance with space debris mitigation guidelines and regulation, I
Flohrer, Tim

PEDAS.1-0017-24 09:30 - 10:00 (solicited)

Short Course: A guide to ESA tools supporting the assessment of compliance with space debris mitigation guidelines and regulation, II
Flohrer, Tim

PEDAS.1-0018-24 10:00 - 10:30 (solicited)

Short Course: A guide to ESA tools supporting the assessment of compliance with space debris mitigation guidelines and regulation, Part III
Flohrer, Tim

Tue, Jul 16, 2024

PEDAS.1 A Sustainable Space Exploration: from the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments

Main Scientific Organizer: Frueh, Carolin
Deputy Organizer: Pardini, Carmen

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-351 PEDAS.1-0045-24

OrbitNet: Advanced 2D Keypoint-Based Detection and Tracking of LEO Resident Space Objects Using Deep Convolutional Neural Network
Jeong, Yeonjeong; Qashoa, Randa; Lee, Regina S. K.; Sohn, Gunho

Tue, Jul 16, 2024

PIR.1 Near-term Exploration of the Interstellar Medium,: Progress and Status

Main Scientific Organizer: Brandt, Pontus
Deputy Organizer: Provornikova, Elena

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-352 PIR.1-0026-24

Magnetic reconnection in the heliosheath and at the heliopause: recent analysis, expectations and requirements for thermal ion-electron measurements on an interstellar mission
Lavraud, Benoit; Blanc, Michel; Turner, Drew; Fargette, Naïs; Dialynas, Konstantinos; Bernard, Baptiste; Sadou-Boudey, Tiffany; Richardson, John; Zhao, Lingling; Phan, Tai; Opher, Merav; Provornikova, Elena; Kornbleuth, Marc; Mostafavi, Parisa; Fedorov, Andrei; Fuselier, Stephen; Drake, James; Swisdak, Marc; Chen, Thomas; Kucharek, Harald; Kollmann, Peter; André, Nicolas; Aunai, Nicolas; Genot, Vincent; Toledo-Redondo, Sergio; Wimmer-Schweingruber, Robert; Barabash, Stas; Brandt, Pontus; McNutt, Ralph

TWT-353 PIR.1-0027-24

Magnetometer capability enabled by new fluxgate core technology
Miles, David

PIR.1-0028-24 (WITHDRAWN)

RADIOISOTOPE THERMOELECTRIC FORCES AND TORQUES ON OUTER SOLAR SYSTEM AND INTERSTELLAR SPACECRAFT
Rogers, Gabe

TWT-355 PIR.1-0029-24

First Detection of a Resolved Astrosphere Around a Main Sequence G-Star by Chandra
Lisse, Carey Team: Chandra HD61005 Astrosphere Team p. 449

TWT-356 PIR.1-0030-24

Astrospheres of Planet-Hosting Cool Stars and Beyond
Herbst, Konstantin; Scherer, Klaus; Engelbrecht, Nicholas Eugene; Strauss, Du Toit; Light, Juandre; Moloto, Katlego

TWT-357 PIR.1-0031-24

Reduction of the Kelvin-Helmholtz instability of the heliopause/astropause due to periodic variations of the solar/stellar wind
Korolkov, Sergey; Izmodenov, Vladislav

Tue, Jul 16, 2024

PPP.1 Planetary Protection Policy

Main Scientific Organizer: Coustenis, Athena
Deputy Organizer: Hedman, Niklas

Room: EC1-214

PPP.1-0001-24 09:00 - 09:20

Planetary Protection: an international concern and responsibility - recent activities of the COSPAR Panel on Planetary Protection
Coustenis, Athena; Hedman, Niklas; Doran, Peter Team: The COSPAR Panel on Planetary Protection p. 459

PPP.1-0002-24 09:20 - 09:40 (solicited)

The new COSPAR Policy on Planetary Protection
Hedman, Niklas

PPP.1-0003-24 09:40 - 10:10 (solicited)

Planetary protection at ESA: future plans and considerations
Sinibaldi, Silvio; Rettberg, Petra; Olsson-francis, Karen; Moissl-Eichinger, Christine; Mahnert, Alexander; Macey, Michael; Kieser, Silas; Closa Gil, Laia; Dore, Joel; Hader, John Daniel; Lindner, Robert; Villar, Paloma; Ortega Ugalde, Sandra; Lamaze, Brigitte; Gaubert, François; Stoll, Luca

PPP.1-0004-24 10:10 - 10:30 (solicited)

NASA's Handbook for Supporting the Planetary Protection Practitioner Community
Seasly, Elaine; Benardini, James; Lalime, Erin; Baker, Amy; Spry, J. Andy

Coffee Break

Room: EC1-214

PPP.1-0005-24 11:00 - 11:30 (solicited)

Planetary Protection Activities and Future Plans at JAXA
Fujita, Kazuhisa

PPP.1-0006-24 11:30 - 11:50 (solicited)

Research on Planetary Protection techniques carried out by the China Academy of Space Technology
Xu, Kanyan

PPP.1-0007-24 11:50 - 12:10 (solicited)

The COSPAR Planetary Protection Requirements for Robotic Missions to Mars
Olsson-Francis, Karen; Doran, Peter; Rettberg, Petra; Zorzano, María-Paz; Raulin, Francois; Seasly, Elaine; Benardini, James Nick; Viacheslav, Ilyin; Kminek, Gerhard Team: COSPAR Panel on Planetary Protection p. 449

PPP.1-0008-24 12:10 - 12:30

The ESA planetary protection re-entry safety review for Mars Sample Return
Sinibaldi, Silvio; Villar, Paloma

Lunch Break

Room: EC1-214

PPP.1-0009-24 15:00 - 15:20 (solicited)

Final Report of the COSPAR Planetary Protection Knowledge Gaps for Human Mars Missions Workshop Series and Paths to Knowledge Gap Closure
Spry, J. Andy; Siegel, Bette; Seasly, Elaine; Sinibaldi, Silvio; Benardini, James

PPP.1-0010-24 15:20 - 15:40

Status Update of NASA's Assessment of the Biological Contamination Threat for a Crewed Mars Surface Mission
Siegel, Bette; Spry, J. Andy; Seasly, Elaine; Benardini, James

PPP.1-0011-24 15:40 - 16:10 (solicited)

The COSPAR Planetary Protection Policy for missions to Icy Worlds
Doran, Peter; Hayes, Alexander; Grasset, Olivier; Coustenis, Athena; Prieto-Ballesteros, Olga; Buffo, Jacob; Schmidt, Britney; Kminek, Gerhard Team: COSPAR Panel on Planetary Protection p. 449

PPP.1-0012-24 16:10 - 16:30

Discussion on Planetary Protection
Coustenis, Athena; Hedman, Niklas; Doran, Peter

Coffee Break

Room: EC1-214

PPP.1-0013-24 17:00 - 17:15

The COSPAR Panel on Planetary Protection Meeting: Open Session
Coustenis, Athena Team: The COSPAR Panel on Planetary Protection p. 459

PPP.1-0014-24 17:15 - 17:30

The COSPAR Panel on Planetary Protection Meeting: Open Session
Coustenis, Athena; Doran, Peter; Hedman, Niklas Team: The COSPAR Panel on Planetary Protection p. 459

PPP.1-0015-24 17:30 - 17:50

The COSPAR Panel on Planetary Protection Meeting: Open Session
Coustenis, Athena; Hedman, Niklas; Doran, Peter

PPP.1-0016-24 17:50 - 18:10

The COSPAR Panel on Planetary Protection Meeting: Closed Session
Coustenis, Athena Team: The COSPAR Panel on Planetary Protection p. 459

PPP.1-0017-24 18:10 - 18:30

The COSPAR Panel on Planetary Protection Meeting: Closed Session
Coustenis, Athena Team: The COSPAR Panel on Planetary Protection p. 459

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PPP.2 Planetary Protection Mission Implementation and Status

Main Scientific Organizer: Sinibaldi, Silvio
Deputy Organizer: Groen, Frank

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-358 PPP.2-0015-24

ESA Argonaut Missions: Planetary Protection implementation considerations
Cifani, Giorgio; Duvet, Ludovic; Murray, Neil Paul; Sinibaldi, Silvio

PPP.2-0016-24 (WITHDRAWN)

The planetary protection strategy of Mars Sample Return's Capture, Containment & Return System
Cataldo, Giuseppe; Hughes, David; Glavin, Daniel; Feehan, Brendan; Pellerano, Fernando

Tue, Jul 16, 2024

PPP.3 Planetary Protection Research and Development

Main Scientific Organizer: Doran, Peter
Deputy Organizer: Olsson-francis, Karen

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-360 PPP.3-0022-24

Testing the Milliflex Oasis® Filtration System for Planetary Protection Implementation on NASA's Mars Sample Return Sample Retrieval Lander
Chen, Fei; Hizer, Akemi; Stott, Kristina; DiNicola, Michael; Wong, Caressa

TWT-361 PPP.3-0023-24

Effect of aerogel fragments on human cell DNA detection
Kunieda, Taiki; Sasaki, Satoshi

TWT-362 PPP.3-0024-24

Bioburden reduction techniques using wet heat for planetary protection in space exploration missions
Takai, Riku; Fujishima, Kosuke; Suzuki, Shino; Kimura, Shunta

TWT-363 PPP.3-0025-24

Impact of Rapid High Heat and Space Conditions on Proliferation and Inactivation of Self-Perpetuating Biomolecular Assemblies
Seto, Emily; Hirsch, Aspen; Lin, Julia; Bouey, Natasha; Chernoff, Yury

TWT-364 PPP.3-0026-24

Application of UV LEDs and Heaters for In-situ and Flight Microbial Sterilization
Bouey, Natasha; Seto, Emily; Bywaters, Kathryn; Ratliff, Katherine; Wood, Joe

Tue, Jul 16, 2024

PRBEM.2 Radiation Environment across the Solar System: Observations, Measurements, and Models for Current and Future Space Missions

Main Scientific Organizer: Miyoshi, Yoshizumi
Deputy Organizer: Hwang, Junga; Kim, Wousik

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-365 PRBEM.2-0013-24

Total Ionizing Dose Effects on On-Board Computer Candidate for a Super Low Earth Orbit Optical Satellite
Sohn, Jongdae; Hwang, Junga; Lee, Hojin; Kwak, Jaeyoung; Yoon, Hyosang

TWT-366 PRBEM.2-0014-24

Understanding the generation of EMIC waves in the dayside magnetosphere in response to solar wind dynamic pressure variations : Modeling and Observations
Porunakatu Radhakrishna, Shreedevi; Miyoshi, Yoshizumi; Yu, Yiqun; Jordanova, Vania; Jun, Chae-Woo; Shiokawa, Kazuo

TWT-367 PRBEM.2-0015-24

Initial Results of LEO-DOS Instrument for Low-Earth Space Radiation Measurement on Board the NEXTSat-2
Nam, Uk-Won; Sohn, Jongdae; Park, Won-Kee; Youn, Sukwon; Kwak, Jaeyoung; Moon, Bongkon; Lee, Jaejin; Hwang, Junga; Choi, Young-Jun; Kim, Sunghwan; Kim, Hongjoo; Ye, Sung-Joon; Park, Hongyoung; Jang, Taeseong; Kim, Jungho

TWT-368 PRBEM.2-0016-24

Space and time correlation modeling for trapped radiations specification models
Brunet, Antoine; Sicard, Angelica; Dahmen, Nour; Papadimitriou, Constantinos; Evans, Hugh

TWT-369 PRBEM.2-0017-24

Reconstruction of the anisotropic flux of geomagnetically trapped particles of high energy (E 100 MeV) based on high angular resolution measurements
Malakhov, Vitaly; ***Mikhailov, Vladimir***; Mikhailov, Vladimir; Leonov, Aleksei; Mayorov, Andrey

PRBEM.2-0018-24 (WITHDRAWN)

Solar particle modelling: What influences our specifications - data, methods and implementations
Jiggens, Piers; Aminalragia-Giamini, Sigiava; Heynderickx, Daniel; Sandberg, Ingmar; Sandberg, Ingmar; Evans, Hugh; Truscott, Pete; Raukunen, Osku; Vainio, Rami; Aran, Angels

Tue, Jul 16, 2024

PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation

Main Scientific Organizer: Fuke, Hideyuki
Deputy Organizer: Dubourg, Vincent

Astronomy, Astrophysics

Room: CON-105

PSB.1-0023-24 09:00 - 09:20

The GAPS Instrument: An Antarctic Balloon Search for Cosmic Antinuclei
Xiao, Mengjiao

PSB.1-0024-24 09:20 - 09:40

EGRAMS: Engineering Ballon Flight for the GRAMS experiment at JAXA TARF
Tanaka, Masashi Team: on behalf of the GRAMS Collaboration p. 455

PSB.1-0025-24 09:40 - 10:00

Development and demonstration of the reconstruction method for high-energy Compton events in an electron-tracking Compton camera
Oka, Tomohiko; Ogio, Shingo; Abe, Mitsuru; Hamaguchi, Kenji; Iiyama, Haruki; Ikeda, Tomonori; Kurosawa, Shunsuke; Kushida, Junko; Miuchi, Kentaro; Mizumura, Yoshitaka; Mori, Masaki; Nakamori, Takeshi; Nakamura, Yuta; Sawano, Tatsuya; Takada, Atsushi; Takemura, Taito; Tanimori, Toru; Tsukamoto, Hirotake; Yoshikawa, Kei; Yoshioka, Ryo

PSB.1-0026-24 10:00 - 10:20

The GRASS instrument for Gamma-ray Burst prompt emission spectroscopy
Natalucci, Lorenzo; Barria, Patrizia; Bazzano, Angela; Morbidini, Alfredo; Nuccilli, Fabrizio; Parmentier, Alexandra; Rodi, James Craig; Ubertini, Pietro; Vertolli, Nello; Volpe, Angela; Zannoni, Ugo

Tue, Jul 16, 2024

PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation

Main Scientific Organizer: Fuke, Hideyuki
Deputy Organizer: Dubourg, Vincent

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-370 PSB.1-0027-24

Development of a quasi-static launch method using a winch and its application to super-pressure balloons with diamond-shaped nets
Saito, Yoshitaka; ***Akita, Daisuke***; Akita, Daisuke; Iijima, Issei; Ikeda, Chusaku; Ikuta, Ayumu; Fuke, Hideyuki; Furuta, Tatsuya; Mori, Hideyuki; Mizukoshi, Keita; Mizumura, Yoshitaka; Tamura, Makoto; Yamatani, Masahiro; Akita, Daisuke; Nakashino, Kyoichi; Matsuo, Takuma; Igarashi, Yutaka; Hashimoto, Hiroyuki; Matsushima, Kiyoho

Tue, Jul 16, 2024

PSD.1 Satellite Dynamics: New Developments and Challenges for Earth and Solar System Sciences

Main Scientific Organizer: Peter, Heike
Deputy Organizer: Topputo, Francesco

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-371 PSD.1-0027-24

PRECISE ORBIT DETERMINATION OF SENTINEL SATELLITES WITH GIPSYX AND GPS/GALILEO DATA
Simons, Wim; Visser, Pieter N.A.M.; Naeije, Marc Team: Copernicus POD QWG p. 449

TWT-372 PSD.1-0028-24
Earth Radiation Pressure Modelling for Copernicus Sentinel Satellites
Peter, Heike; Fernández Martín, Carlos; Féménias, Pierre; Nogueira Loddo, Carolina

TWT-373 PSD.1-0029-24
Recovering long-term gravity field changes from SLR and the SLR+GRACE combinations
Sośnica, Krzysztof; Gałdyn, Filip; Zajdel, Radosław

Tue, Jul 16, 2024

PSD.2 Precision Orbit and Attitude Determination of Small Satellites, CubeSats, and Constellation and their Scientific Applications

Main Scientific Organizer: Han, Shin-Chan
Deputy Organizer: Jäggi, Adrian

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-374 PSD.2-0013-24
Efficacy of the Monte Carlo Method within the Aerospace Industry
Kukec, Sofia; Simmons, Kevin

TWT-375 PSD.2-0014-24
Atmospheric Turbulence and Ground-Space Laser Propagation: The Concept of CLUB CubeSat
Song, Seok-Min; Song, Hosub; Kim, Chae-Ryeong; Kang, Young-In; Ju, Yang-Ha; Choi, Mansoo; Lim, Hyung-Chul; Yi, Yu

Tue, Jul 16, 2024

PSSH.1 The Challenges of Space Activities from the Perspective of Human and Social Sciences

Main Scientific Organizer: Sourbès-Verger, Isabelle
Deputy Organizer: Hedman, Niklas; Worms, Jean-Claude

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-376 PSSH.1-0011-24
NEW SPACE SECURITY BETWEEN HARD AND SOFT LAW
Gaillard-Sborowsky, Florence

TWT-377 PSSH.1-0012-24
Astrobioethics: an Inquiry into space sciences and the perpetuity of Life
Perkins, Deborah Kala

TWT-378 PSSH.1-0013-24
Legal Frameworks and Challenges to commercial Space Flight: A UAE Space Law Perspective
Abbas, Sheer

Tue, Jul 16, 2024

PSW.3 Preparation for a New Ionospheric Space Weather Scale for Trans-ionospheric Radio wave Propagation

Main Scientific Organizer: Jakowski, Norbert
Deputy Organizer: Fuller-Rowell, Tim

Room: EC1-314

PSW.3-0001-24 09:00 - 09:30 (solicited)
A Probabilistic Approach for the T-Scale Development
Elvidge, Sean; Themens, David R.

PSW.3-0002-24 09:30 - 09:45
A Discussion of the Threshold for Issuing Space Weather Advisories at ICAO
Ishii, Mamoru; Nishioka, Michi; Tsugawa, Takuya

PSW.3-0003-24 09:45 - 10:00
The ionospheric disturbance index (DIX-SG) and its performance under continuous operation
Berdermann, Jens; Wilken, Volker; Kriegel, Martin; David, Paul; Tagargouste, Youssef

PSW.3-0004-24 (WITHDRAWN) 10:00 - 10:15
Monitoring and forecasting ionospheric perturbations based on GNSS techniques
Bouya, Zahra; Marshall, Richard

PSW.3-0005-24 10:15 - 10:30
Hierarchy of the Ionosphere and Magnetosphere Storms in the Earth's Environment
Stanislawska, Iwona; Gulyaeva, Tamara; Haralambous, Haris

Coffee Break

Room: EC1-314

PSW.3-0006-24 09:00 - 09:30 (solicited)

Space-bases Swarm satellite observations and RTK based positioning monitors, a promising combination for forming a T scale
Buchert, Stephan

PSW.3-0007-24 09:30 - 09:45

Ionospheric indices GIX and SIDX and related perturbation scales
Jakowski, Norbert; Hoque, Mohammed Mainul; Cahuasquí, Juan Andrés; Nykiel, Grzegorz

PSW.3-0008-24 09:45 - 10:00

Characterization of the topside ionosphere using Swarm data – the TEGIX and NeGIX indices
Cahuasquí, Juan Andrés; Hoque, Mohammed Mainul; Jakowski, Norbert; Buchert, Stephan; Vasylyev, Dmytro; Nykiel, Grzegorz; Kriegel, Martin; David, Paul; Tagargouste, Youssef; Berdermann, Jens

PSW.3-0009-24 10:00 - 10:30 (solicited)

New Ionospheric Indices for Scaling Space Weather Impacts
Yizengaw, Endawoke; Straus, Paul R.

Tue, Jul 16, 2024

PSW.5 Community-Driven COSPAR Space Weather Roadmap

Main Scientific Organizer: Kuznetsova, Maria
Deputy Organizer: Bisi, Mario M.

Room: EC1-315

PSW.5-0001-24 09:00 - 09:15

Introduction to the Community-Driven Space Weather Roadmap - Opening.
Bisi, Mario M.; Kuznetsova, Maria

PSW.5-0002-24 09:15 - 09:30

Long-term solar variability: a roadmap update from COSPAR ISWAT cluster S1
Pevtsov, Alexei; Nandi, Dibyendu; Usoskin, Ilya; Pevtsov, Alexander; Corti, Claudio; Lefevre, Laure; Owens, Mathew; Li, Gang; Krivova, Natalie; Saha, Chitradeep; Perri, Barbara; Brun, Allan Sacha; Strugarek, Antoine; Dayeh, Maher A.; Nagovitsyn, Yuri; Erdelyi, Robert

PSW.5-0003-24 09:30 - 09:45

Advancements in Understanding the Ambient Solar Magnetic Field, Heating, and Spectral Irradiance: A Roadmap Update from COSPAR ISWAT Cluster S2
Reiss, Martin; Arge, Charles; Henney, Carl J.; Klimchuk, James; Linker, Jon; Muglach, Karin; Pevtsov, Alexei; Pinto, Rui; Schonfeld, Samuel

PSW.5-0004-24 09:45 - 10:00

Prediction of Solar Energetic Events Impacting Space Weather Conditions: A Roadmap of Findings and Recommendations
Georgoulis, Manolis K.; Yardley, Stephanie; Guerra, Jordan; Murray, Sophie; Ahmadzadeh, Azim; Anastasiadis, Anastasios; Angryk, Rafal A.; Aydin, Berkay; Banerjee, Dipankar; Barnes, Graham; Bemporad, Alessandro; Benvenuto, Federico; Bloomfield, Shaun; Bobra, Monica; Campi, Cristina; Camporeale, Enrico; DeForest, Craig; Emslie, A.Gordon; Falconer, D. A.; Feng, Li; Gan, Weiqun; Green, Lucie; Guastavino, Sabrina; Hapgood, Mike; Kempton, Dustin J.; Kitiashvili, Irina; Kontogiannis, Ioannis; Korsos, Marianna; Leka, K D; Massa, Paolo; Massone, Anna Maria; Nandi, Dibyendu; Nindos, Alexander; Papaioannou, Athanasios; Park, Sung-Hong; Patsourakos, Spiros; Piana, Michele; Rawafi, Nour; Sadykov, Viacheslav; Toriumi, Shin; Vourlidas, Angelos; Wang, Haimin; Wang, Jason; Whitman, Kathryn; Yan, Yihua; Zhukov, Andrei

PSW.5-0005-24 10:00 - 10:15

Recommendations from the H1+H2 Roadmap paper
Heinemann, Stephan; Temmer, Manuela; Scolini, Camilla; Richardson, Ian G.; Paouris, Evangelos; Vourlidas, Angelos; Bisi, Mario M. Team: SWAT Cluster H1+H2 Writing teams: p. 459

PSW.5-0006-24 10:15 - 10:30

Community-Driven COSPAR Space Weather Roadmap: Radiation Environment in Heliosphere: SEPs and GCRs
Guo, Jingnan; Wang, Bingbing; Whitman, Kathryn; Plainaki, Christina; Zhao, Lingling; Bain, Hazel M.; Cohen, Christina; Dalla, Silvia; Dumbovic, Mateja; Janvier, Miho; Jun, Insoo; Luhmann, Janet G.; Malandraki, Olga; Mays, M. Leila; Rankin, Jamie; Wang, Linghua; Zheng, Yihua

Coffee Break

Room: EC1-315

PSW.5-0007-24 11:00 - 11:15

Earth's Geomagnetic Environment—Progress and Gaps in Understanding, Prediction, and Impacts
Opgenoorth, Hermann Team: ISWAT Geomagnetic Environment p. 453

PSW.5-0008-24 11:15 - 11:30

Recommendations from the Atmosphere variability cluster G2a
Bruinsma, Sean; Yue, Jia; Mehta, Piyush

PSW.5-0009-24 11:30 - 11:45

Ionosphere variability: Advances in observational, monitoring, detection and modeling capabilities
Tsagouri, Ioanna; Themens, David R.; Belehaki, Anna; Shim, Ja-Soon; Jakowski, Norbert; Fuller-Rowell, Tim; Hoque, M. Mainul; Nykiel, Grzegorz; Miloch, Wojciech; Borries, Claudia; Morozova, Anna; Barata, Teresa; Engelke, William

PSW.5-0010-24 11:45 - 12:00

Overview, Progress and Next Steps for Our Understanding of the Near-Earth Space Radiation and Plasma Environment: Science and Applications
Zheng, Yihua; Jun, Insoo; Tu, Weichao; Shprits, Yuri; Kim, Wousik; Matthiä, Daniel; Meier, Matthias M.; Tobiska, W Kent; Miyoshi, Yoshizumi; Jordanova, Vania; Ganushkina, Natalia; Tenishev, Valeriy; O'brien, Paul; Brunet, Antoine; Maget, Vincent; Guo, Jingnan; Wang, Dedong; Horne, Richard; Glauert, Sarah A; Haas, Bernhard; Drozdov, Alexander

PSW.5-0011-24 12:00 - 12:15

A Review on Radiation Environment Pathways to Impacts: Radiation Effects, Relevant Empirical Environment Models, and Future Needs
Jun, Insoo; Garrett, Henry; Kim, Wousik; Zheng, Yihua; Fung, Shing; Corti, Claudio; Ganushkina, Natalia; Guo, Jingnan

PSW.5-0012-24 12:15 - 12:30 (solicited)

Recommendations from the ISWAT G3 Surface Charging Paper
Minow, Joseph; Jordanova, Vania; Pitchford, Dave; Ganushkina, Natalia; Zheng, Yihua; Delzanno, Gian Luca; Jun, Insoo; Kim, Wousik

Lunch Break

Introduction. Solar-helio drivers
Chair: Kuznetsova, Maria
Room: EC1-315

PSW.5-0013-24 (WITHDRAWN) 15:00 - 15:15

End-user Input to Current and Future COSPAR Space Weather Roadmaps
Marshall, Richard; Jackson, David

PSW.5-0014-24 15:15 - 15:30

Heliophysics/Space weather science information architecture and innovative solutions: progress report
Masson, Arnaud; Fung, Shing

PSW.5-0015-24 15:30 - 15:50

Open discussion on pathways forward
Kuznetsova, Maria; Bisi, Mario M.

PSW.5-0016-24 15:50 - 16:10

Approach to Future Space-Weather Roadmap Updates
Bisi, Mario M.; Kuznetsova, Maria

PSW.5-0017-24 16:10 - 16:30

International Space Weather Action Teams: new actions and collaborations
Kuznetsova, Maria; Bisi, Mario M.

Tue, Jul 16, 2024

PSW.6 Improving Predictive Capabilities of Radiation Environment in Support of Human Exploration and Robotic Missions

Main Scientific Organizer: Whitman, Kathryn
Deputy Organizer: Jun, Insoo

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-381 PSW.6-0007-24

New REleASE Products: Application of the Relativistic Electron Alert System (REleASE) to instruments on board of STEREO-A
Dröge, Henrik; ***Jensen, Stefan***; Jensen, Stefan; Heber, Bernd; Kollhoff, Alexander; Kühl, Patrick; Malandraki, Olga; Posner, Arik

TWT-382 PSW.6-0008-24

Utilizing Measurements from the Radiation Assessment Detector (RAD) on the Surface of Mars to Improve our Understanding of the Martian Radiation Environment
Ehresmann, Bent; Hassler, Donald M.; Zeitlin, Cary; Wimmer-Schweingruber, Robert; Khaksarighiri, Salman; Guo, Jingnan; Löffler, Sven; Matthiä, Daniel; Berger, Thomas; Reitz, Guenther

PSW.6-0009-24 (WITHDRAWN)

Aspects of Modelling Solar Energetic Particle Event – improving Predictive Capabilities of the Radiation Environment
Li, Gang

Tue, Jul 16, 2024

PSW.8 The Geomagnetic Environment Leading to GIC Impacts on Power-infrastructure

Main Scientific Organizer: Opgenoorth, Hermann
Deputy Organizer: Gannon, Jennifer

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-384 PSW.8-0007-24

Diurnal and Seasonal Variability of Geomagnetically Induced Currents (GICs) in Power Transmission Systems: A Case Study in Japan
Idei, Shun; Nakamura, Satoko; Miyoshi, Yoshizumi; Ebihara, Yusuke; Watari, Shinichi

Tue, Jul 16, 2024

PSW.10 Radio Observations for Space Weather

Main Scientific Organizer: Bisi, Mario M.

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area:

EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-379 PSW.10-0012-24
The Hunt for Perpendicular Magnetic Field Measurements in Plasma
Jensen, Elizabeth; ***Bisi, Mario M.***; Bisi, Mario M.; Rahmani, Yaser; Simpson, Jamesina

TWT-380 PSW.10-0013-24
Radio Investigations for Space Environment Research (RISER): Overview and Initial Progress
Bisi, Mario M.; Forte, Biagio; Milan, Steve; Jackson, David; Fallows, Richard; Jackson, Bernard; Odstrcil, Dusan; Barnes, David; Chang, Oyuki; Gonzi, Siegfried

Tue, Jul 16, 2024

TGII.1 IDEA as a Transformative Global Issue: Developing Strategies to Advance Positive Systemic Change in STEM Education and Careers Across the International Scientific Technical Community

Main Scientific Organizer: Snitch, Mary
Deputy Organizer: Roy, Aura; Spinner, Jovonni

IDEA as a Transformative Global Issue: Developing Strategies to Advance Positive Systemic Change in STEM Education and Careers Across the International Scientific Technical Community.

Chair: Snitch, Mary
Room: CON-104

TGII.1-0001-24 15:00 - 16:30
IDEA as a Transformative Global Issue: Advancing Positive Sustainable Change in Education and the Workforce Throughout the Scientific Community
Snitch, Mary

Tue, Jul 16, 2024

TGCSS.1 Small Spacecraft - Big Science

Main Scientific Organizer: Baker, Daniel N.
Deputy Organizer: Chandran, Amal

Poster Program

Author in Attendance: Tuesday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-385 TGCSS.1-0017-24
High grade magnetometer onboard Foresail-2/3 satellites for CORBES - First test results
Anger, Marius; Fischer, David; Praks, Jaan

TWT-386 TGCSS.1-0018-24
An Exploration of Wood-Based Cube Satellite Chassis
Timbal, Sebastian; Simmons, Kevin

TWT-387 TGCSS.1-0019-24
PRELIMINARY ANALYSIS OF A CO-ANNULAR SLIT EMITTER FOR AN ELECTROSPRAY PROPULSION SYSTEM
Sunho, Choe; Kwon, Chanearl

TWT-388 TGCSS.1-0020-24
ELECTROSPRAY EXPERIMENT OF WATER AND GLYCERIN USING CAPILLARY AND ANNULAR SLIT TYPE EMITTER
Kwon, Chanearl

Tue, Jul 16, 2024

FC.1 NASA and Public-Private Partnerships: A Fireside Chat to Share Perspectives on NASA Science

Room: CON-301

FC.1-0001-24 17:00 - 18:30
NASA and Public-Private Partnerships: A Fireside Chat to Share Perspectives on NASA Science
Snitch, Mary

Wed, Jul 17, 2024

A0.1 What Are the Remaining Scientific Challenges above Equatorial Regions? How Small Satellites Could Fill the Knowledge Gap

Main Scientific Organizer: Lansard, Erick
Deputy Organizer: Benveniste, Jérôme

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

See page 235

Wed, Jul 17, 2024

A0.2 Land-Ocean-Atmosphere interactions

Main Scientific Organizer: Fournier, Severine
Deputy Organizer: Benveniste, Jérôme

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

See page 235

Wed, Jul 17, 2024

A0.4 Earth observations for Disaster Mitigation

Main Scientific Organizer: Vannan, Suresh
Deputy Organizer: Kasai, Yasuko

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

See page 236

Wed, Jul 17, 2024

A0.6 The Connections between Earth's Lower and Upper Atmosphere

Main Scientific Organizer: Kahn, Ralph
Deputy Organizer: Yau, Andrew W.

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

See page 237

Wed, Jul 17, 2024

A1.1 Space-based and sub-orbital observations of atmospheric physics and chemistry: Critical Information on the Health of our Planet

Main Scientific Organizer: Kasai, Yasuko
Deputy Organizer: Walker, Kaley

Focus on Geostationary Satellite Missions

Chair: Kasai, Yasuko
Room: EC1-316

A1.1-0001-24 09:00 - 09:20 (solicited)
Atmospheric Composition Observation over Asia from Geostationary Earth Orbit: GEMS
Kim, Jhoon Team: GEMS Science Team p. 450

A1.1-0002-24 09:20 - 09:40 (solicited)
Formaldehyde and glyoxal measurements from low Earth orbit to geostationary satellites to understand VOC emissions
Kwon, Hyeong-Ahn; González Abad, Gonzalo; Nowlan, Caroline; Chan Miller, Christopher; Park, Rokjin; Lee, Gitaek; Ha, Eunjo

A1.1-0003-24 09:40 - 09:55
Deriving Essential Climate Variable Data from Multiple Satellite Remote Sensors Using a Consistent Fingerprinting Method
Liu, Xu

A1.1-0004-24 (WITHDRAWN) 09:55 - 10:10
Geostationary Aerosol Optical Depth Product: Evaluation of Diurnal Variability and Application in Monitoring Smoke Aerosols from the Canadian Fires
Zhou, Mi; Laszlo, Istvan; Liu, Hongqing

A1.1-0005-24 10:10 - 10:30 (solicited)
A New Era of Air Quality Monitoring from Space over North America with TEMPO: Commissioning and Early Nominal Operation Results
Liu, Xiong Team: TEMPO p. 459

Coffee Break

Focus on Current Missions and Future Needs

Chair: Kasai, Yasuko
Room: EC1-316

A1.1-0006-24 11:00 - 11:30 (solicited)
The retrieval of atmospheric trace constituents using passive solar remote sensing: progress and challenges
Burrows FRS, John P.; Bovensmann, Heinrich; Buchwitz, Michael; Reuter, Maximilian; Schneising, Oliver; Borchardt, Jakob; Krautwurst, Sven; Gerilowski, Konstantin; Richter, Andreas; Boesch, Hartmut

A1.1-0007-24 11:30 - 11:50 (solicited)

GOSAT and GOSAT-2 Achievements in the past 15 years and GOSAT-GW status
Matsunaga, Tsuneo; Morino, Isamu; Yoshida, Yukio; Saito, Makoto; Noda, Hibiki; Ohyama, Hirofumi; Someya, Yu; Saeki, Tazu

A1.1-0008-24 11:50 - 12:10 (solicited)

Connections between Earth's Lower and Upper Atmosphere: observations by MIPAS/Envisat and future prospects with the EE-11 Candidate Mission CAIRT
López-Puertas, Manuel; Funke, Bernd; Garcia-Comas, Maya; von Clarmann, Thomas; Stiller, Gabriele; Bender, Stefan; Sinnhuber, Björn-Martin

A1.1-0009-24 12:10 - 12:30

The Atmospheric Chemistry Experiment: 20 years of Validation and Science Results
Walker, Kaley; Jeffery, Paul; Sheese, Patrick; Zou, Jiansheng

Lunch Break

Focus on Retrieval Devleopment and Applications

Chair: Kasai, Yasuko
Room: EC1-316

A1.1-0010-24 15:00 - 15:20 (solicited)

Progress of retrieval algorithm development for GOSAT-GW NO2 product
Fujinawa, Tamaki; Lim, Hyunkwang; Sato, Tomohiro; Sekiya, Takashi; Yamashita, Yousuke; Nakamura, Ayano; Sugita, Takafumi; Kanaya, Yugo; Kasai, Yasuko; Tanimoto, Hiroshi

A1.1-0011-24 15:20 - 15:35

Towards Retrieving Atmospheric HCOOH from the GOSAT-2 TIR Band: Forward Simulations and Sensitivity Analysis
Xie, Fengxin; Imasu, Ryoichi; Saitoh, Naoko; Someya, Yu

A1.1-0012-24 15:35 - 15:55 (solicited)

Measurement of XCO2 using a solar tracking spectrometer (CASTLE-CO2) for the validation of satellite data
Imasu, Ryoichi; Matsumi, Yutaka; Morino, Isamu; Arai, Yutaka

A1.1-0013-24 15:55 - 16:10

Quantitative analysis of global air cleanliness using the Clean alr Index (Cll)
Xuetao, Guan; Sato, Tomohiro; Sekiya, Takashi; Kuroda, Takeshi; Kasai, Yasuko

A1.1-0014-24 16:10 - 16:30

Poster Advertising Session
Walker, Kaley; Kasai, Yasuko

Coffee Break

Focus on Aerosols and Wildfire Impacts

Chair: Kasai, Yasuko
Room: EC1-316

A1.1-0015-24 17:00 - 17:20 (solicited)

Sub-orbital demonstration of the HAWC limb imaging instruments on the NASA ER-2 airplane
Bourassa, Adam; Degenstein, Doug; Langille, Jeffery; Rieger, Landon

A1.1-0016-24 17:20 - 17:40 (solicited)

Development of algorithm to estimate aerosol concentration using commonly used camera (SNAP-Cll): Toward validation of satellite remote sensing
Sato, Tomohiro; Niimi, Michiharu; Takashima, Hisahiro; Ishii, Shoken; Takabayashi, Masanori; Yamamoto, Kazunori; Murata, Takeshi; Yoshida, Hitoshi; Nakayama, Tomoki; Yoshikawa, Mayuko; Kasai, Yasuko

A1.1-0017-24 17:40 - 17:55

The feature of hydrocarbons over East-Asian UTLS related to Siberian wildfires in Summer
Lee, Donghee; Koo, Ja-Ho; Pan, Laura; Sheese, Patrick; Walker, Kaley

A1.1-0018-24 17:55 - 18:10

Forest fire-induced aerosol loading and their climate impact assessment over the north eastern region of India: a multi-satellite perspective
Tewari, Apurba; Srivastava, Nishi

A1.1-0019-24 18:10 - 18:25

Observation of Down-Plume Wildfire Emissions of NO2, CO, and Formaldehyde Using TROPOMI Satellite Data
Hearne, Tadhg; Griffin, Debora; Hung, Joseph; Stockwell, Chelsea; Strong, Kimberly

Wed, Jul 17, 2024

A1.1 Space-based and sub-orbital observations of atmospheric physics and chemistry: Critical Information on the Health of our Planet

Main Scientific Organizer: Kasai, Yasuko
Deputy Organizer: Walker, Kaley

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

A2.1 Science and Applications Enabled by Satellite Missions for Global Ocean, Inland Seas, and Cryosphere

Main Scientific Organizer: Vignudelli, Stefano
Deputy Organizer: Fournier, Severine

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area:

EC1-Hall 1

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Wed, Jul 17, 2024

A3.1 New Technology in Earth Observation and Applications for Sustainable Land Ecosystem

Main Scientific Organizer: Muramatsu, Kanako
Deputy Organizer: Guo, Linghua

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B0.1 Planetary Science Highlights

Main Scientific Organizer: Grande, Manuel
Deputy Organizer: Cable, Morgan

Room: CON-205

B0.1-0001-24 15:00 - 15:15
Exploring Planet Zero: Dispatches from the Model Frontier
Byrne, Rohan

B0.1-0002-24 15:15 - 15:45 (solicited)
Journey to the Kuiper Belt: The Undiscovered Country
McNutt, Ralph; Lisse, Carey; Brandt, Pontus; Poppe, Andrew; Provornikova, Elena; Verbiscer, Anne; Porter, Simon; Elliott, Heather; Hill, Matthew; Kollmann, Peter; Grundy, William; Benecchi, Susan; Lauer, Tod; Parker, Joel; Gladstone, Randy; Becker, Tracy; Singer, Kelsi; Stern, Alan; Opher, Merav; Doner, Alex; Horanyi, Mihaly; Redfield, Seth; Bush, Rewa; Bagenal, Fran

B0.1-0003-24 (WITHDRAWN) 15:45 - 16:00
Thermal metamorphism suggested by organic carbon in CM Carbonaceous Chondrites
Tanbakouei, Safoura; Michalski, Josep R.

B0.1-0004-24 16:00 - 16:15
A turbulence Debye-shielding model for exploring the periodic reversal of the magnetic field on Earth's polarity.
Zhu, Bojing

B0.1-0005-24 16:15 - 16:30
EQUULEUS: Artemis-1 CubeSat to Successfully Demonstrate Orbital Control Technology in the Earth [U+2015] Moon Region by Small Satellites
Funase, Ryu; Kawabata, Yosuke; Nakajima, Shintaro; Fuse, Ryota; Miyoshi, Kota; Akiyama, Mariko; Matsushita, Masanori; Sekine, Hokuto; Koizumi, Hiroyuki Team: EQUULEUS project team p. 450

Coffee Break

Room: CON-205

B0.1-0006-24 17:00 - 17:15
Formation of faculae in the form of bright ejecta on the dwarf planet Cere
Czechowski, Leszek

B0.1-0007-24 17:15 - 17:45 (solicited)
New perspectives on lunar compositional diversity from the Chandrayaan missions
Narendranath, Shyama

B0.1-0008-24 17:45 - 18:15 (solicited)
The Elemental Puzzle: Insights into Planet Formation from Solar System to Exoplanets
Miguel, Yamila

B0.1-0009-24 18:15 - 18:30
Magnetic Cleanliness of the Psyche Spacecraft
Ream, Jodie; Weiss, Benjamin; Soriano, Manny; Merayo, Jose M. G.; de Soria Santacruz-Pich, Maria; Cloutier, Kyle; Raymond, Carol; Polanskey, Carol; Narvaez, Pablo; Dang, Katherine; Russell, Christopher; Oran, Rona; Warner, Noah; Elkins-Tanton, Linda

Wed, Jul 17, 2024

B0.1 Planetary Science Highlights

Main Scientific Organizer: Grande, Manuel
Deputy Organizer: Cable, Morgan

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B0.2 Instrumentation for Planetary Exploration

Main Scientific Organizer: Dirri, Fabrizio
Deputy Organizer: Shanmugam, M.

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B0.3 Technology for Planetary Exploration

Main Scientific Organizer: Longobardo, Andrea
Deputy Organizer: Smith, Heather

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B1.1 Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense

Main Scientific Organizer: Milam, Stefanie
Deputy Organizer: Palomba, Ernesto

Surveys

Chair: Wong, Ian
Room: EC1-215

B1.1-0044-24 11:00 - 11:30 (solicited)
The Impact of Ground-Based Surveys on Small Body Science
Holt, Carrie

B1.1-0045-24 11:30 - 11:45
Planetary Science with the SPHEREx 0.7 – 5.0 mum Solar System Object Catalog J.M. Bauer, C.M. Lisse, Y. Kim, and the SPHEREx Solar System Science Working Group
Bauer, James; Lisse, Carey; Kim, Yaeji

B1.1-0046-24 11:45 - 12:00
Science of asteroids with Gaia astrometry and FPR release
Hestroffer, Daniel; Liu, Ziyu; Desmars, Josselin; David, Pedro

B1.1-0047-24 12:00 - 12:15
KASI's Discoveries of Unusual Solar System Bodies with KMTNet
Jeongahn, Youngmin; Kim, Myungjin; Moon, Hong-Kyu; Choi, Young-Jun

B1.1-0048-24 12:15 - 12:30
The Importance of Gaia Reflectance Spectra in the Study of Asteroid Collisional Families
Galluccio, Laurent; Galinier, Marjorie; Avdellidou, Chrysa; Delbo, Marco

Coffee Break

Comets

Chair: Harrington Pinto, Olga
Room: EC1-215

B1.1-0049-24 15:00 - 15:15
Unveiling the chemical origins of the Solar System: a statistical comparison of molecular abundances in comets and protoplanetary disks
Lippi, Manuela; Podio, Linda; Faggi, Sara; Codella, Claudio; Mumma, Michael; Villanueva, Geronimo

B1.1-0050-24 (WITHDRAWN) 15:15 - 15:30
Cometary Nebulae origin possibility of SOHO Kreutz Group of Sungrazing Comets
Karimova, Ulkar; Yi, Yu

B1.1-0051-24 15:30 - 15:45
WISE/NEOWISE Observations of Outbursting Comet P/2010 H2 (Vales)
Kim, Yoonyoung

B1.1-0052-24 15:45 - 16:00
Correlations among volatile species in the coma of comet 67P/Churyumov-Gerasimenko
Rubin, Martin; Altwegg, Kathrin; Berthelier, Jean-Jacques; Combi, Michael; De Keyser, Johan; Fuselier, Stephen; Gombosi, Tamas; Gudipati, Murthy; Haenni, Nora; Kipfer, Kristina Anna; Ligterink, Niels; Müller, Daniel; Shou, Yinsi; Wampfler, Susanne

B1.1-0053-24 16:00 - 16:15
The composition of the dust particles of comet 67P/Churyumov-Gerasimenko suggests a pre-accretionary irradiated surface composition
Cottin, Hervé; Sansberro, Inès; Fray, Nicolas; Hilchenbach, Martin; Stenzel, Oliver J.; Fischer, Henning; Paquette, John; Engrand, Cécile; Baklouti, Donia; Briois, Christelle; Thirkell, Laurent; Bardyn, Anaïs; Ryno, Jouni; Hornung, Klaus

B1.1-0054-24 16:15 - 16:30
CO+CO2 Production in Comet C/2020 F3 (NEOWISE) using NEOWISE detections
Kim, Yaeji; Bauer, James; Masiero, Joseph; Mainzer, Amy

Wed, Jul 17, 2024

B1.1 Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense

Main Scientific Organizer: Milam, Stefanie
Deputy Organizer: Palomba, Ernesto

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B3.1 Lunar Science and Exploration

Main Scientific Organizer: Bhatt, Megha
Deputy Organizer: Foing, Bernard H.

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B3.2 New Planetary Science Opportunities and Results Enabled by Commercial Infrastructure and Venture Capital

Main Scientific Organizer: Thomas, David
Deputy Organizer: Pinault, Lewis

Room: EC1-216

B3.2-0001-24 (WITHDRAWN) 09:00 - 09:15
Cislunar and Heliocentric Environment Access as a Secondary Payload on Deep Space Logistics Vehicles
Wittal, Matthew; Asher, Benjamin; Rhym, Bianca; Gordon, Randall; Smith, Jeffrey

B3.2-0002-24 09:15 - 09:30
The Future of Lunar Exploration: ispace's Vision for Resource Utilization
Casanova, Sophia

B3.2-0003-24 09:30 - 09:45
Introducing HokuSat, a low-cost remote sensing 1U CubeSat platform for training and spaceflight
Imai-Hong, Amber; Zhu, Frances; Clements, Luke; Amendola, Christopher

B3.2-0004-24 (WITHDRAWN) 09:45 - 10:00
The development of a lunar economy
Reynolds, Elizabeth; Kim, Sangdawn

B3.2-0005-24 10:00 - 10:15
Development of a Dusty Thermal Vacuum Chamber
Peer Mohamed, Mohamed Makthoum

B3.2-0006-24 10:15 - 10:30
Harnessing Commercial Partnerships for the LunaH-Map Mission: A Pathfinder for Future Lunar Exploration
Hardgrove, Craig

Coffee Break

Room: EC1-216

B3.2-0007-24 11:00 - 11:20 (solicited)
Apophis Pathfinder: An innovative Milo Space Science Institute smallsat mission for initial characterization of the Potentially Hazardous Asteroid (99942) Apophis
Bell, James; Thomas, David; Linn, Tim; Scheeres, Daniel; Rice, James

B3.2-0008-24 11:20 - 11:40 (solicited)
Hyperspectral imaging of the Moon: Spin off, spin on.
Lucey, Paul

B3.2-0009-24 11:40 - 11:55
LUNAR OUTPOST AUTONOMOUS ROBOTIC MOBILITY AS A KEY ENABLER OF THE COMMERCIAL CISLUNAR ECONOMY, INFRASTRUCTURE, AND NEW PLANETARY SCIENCE
Gemer, Andrew

B3.2-0010-24 11:55 - 12:10
INTRODUCING THE WORLD INSTITUTE FOR SUSTAINABLE EXPLORATION (WISE); LUNAR PROSPECTS AND GLOBAL OPPORTUNITIES
Pinault, Lewis; Thomas, David; Jurgens, Jeremy; Yano, Hajime

B3.2-0011-24 12:10 - 12:30
ADVANCING OPPORTUNITIES FOR START-UP AND SCIENTIFIC COLLABORATIONS
Pinault, Lewis

Wed, Jul 17, 2024

B4.1 Mercury Science and Exploration

Main Scientific Organizer: Benkhoff, Johannes
Deputy Organizer: Murakami, Go

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B4.2 Venus Science and Exploration

Main Scientific Organizer: Lee, Yeon Joo
Deputy Organizer: Wilson, Colin

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B4.4 Forward Planning for the Exploration of Mars

Main Scientific Organizer: Haltigin, Timothy
Deputy Organizer: Hays, Lindsay; Kminek, Gerhard; Matousek, Steven

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B5.1 Jupiter, the Galilean Satellites, Rings and Magnetospheres: Juno Results

Main Scientific Organizer: Bolton, Scott
Deputy Organizer: Connerney, John E.p.

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B5.3 Ocean Worlds: Past, Present, and Future

Main Scientific Organizer: Cable, Morgan
Deputy Organizer: Solomonidou, Anezina

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

B6.1-E4.1 Exoplanet Detection and Characterisation: Current Research, Future 0pportunities and the Search for Life Outside the Solar System

Main Scientific Organizer: Altieri, Francesca
Deputy Organizer: Ireland, Michael

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C0.1 International Standards for Space Environment

Main Scientific Organizer: Tobiska, W Kent
Deputy Organizer: Kitazawa, Yukihito

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C0.2 Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies

Main Scientific Organizer: Rees, David
Deputy Organizer: Kosch, Michael

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies

Main Scientific Organizer: Fagundes, Paulo Roberto
Deputy Organizer: Kavutarapu, Venkatesh

Ionospheric Irregularities

Chair: Fagundes, Paulo Roberto
Room: EC1-312

C1.1-0001-24 15:00 - 15:30 (solicited)
Recent results on the equatorial and middle latitude thermosphere and ionosphere obtained from the Optical Mesosphere Thermosphere Imagers (OMTIs) in 2022-2024
Shiokawa, Kazuo; Otsuka, Yuichi

C1.1-0002-24 15:30 - 15:45
On the association of loss of locks in GNSS signals with electron density depletions over the equatorial and low latitudes
Kavutarapu, Venkatesh; Pallamraju, Duggirala; Lissa, Duvvu; Seemala, Gopi

C1.1-0003-24 (WITHDRAWN) 15:45 - 16:00
Occurrence of ionospheric radio scintillations during different seasons of solar minimum and maximum
Perez Macho, Eduardo; Correia, Emília

C1.1-0004-24 16:00 - 16:15
Gobal characteristics of midlatitude nighttime plasma irregularities
Katamzi-Joseph, Zama; Habarulema, John Bosco; Otsuka, Yuichi

C1.1-0005-24 16:15 - 16:30
Analysis of Equatorial Ionospheric Irregularities during the Ascending Phase of the Solar Cycle 25 Over Thailand and ASEAN Region
Supnithi, Pornchai; Tongkasem, Napat; Myint, Lin Min Min; Budtho, Jirapoom; Jamjureegulgarn, Punyawi; Komolmis, Tharadol; Thammavongsy, Phimmasone; Kong, Phutphalla; Nishioka, Michi; Perwitasari, Septi

Coffee Break

Ionospheric Irregularities

Chair: Picanço, Giorgio
Room: EC1-312

C1.1-0006-24 09:00 - 09:15
Forecasting equatorial ionospheric irregularities (EII) using LSTM-based Total Electron Content (TEC) Prediction
Mutasov, Gleb; Myint, Lin Min Min; Supnithi, Pornchai; Budtho, Jirapoom; Nishioka, Michi

C1.1-0007-24 09:15 - 09:30
Equatorial plasma bubble occurrence probability: Dependency seasonal, geomagnetic and solar cycle
Vital, Luiz; Takahashi, Hisao; Barros, Diego; Wrasse, Cristiano M.; Figueiredo, Cosme Alexandre; Carmo, Carolina S.; Carrasco, Alexander J. Team: INPE - Plasma Irregularities p. 452

C1.1-0008-24 (WITHDRAWN) 09:30 - 09:45
Simultaneous study of plasma blobs, MSTIDs and plasma irregularities over low-mid latitude geomagnetic transition region
Rather, Mohammad Rafeeq; Bhat, Aashiq Hussain; Thokuluwa, Ramkumar; Malik, Manzoor Ahmad

C1.1-0009-24 09:45 - 10:00
Detecting Ionospheric Irregularities from Multi-constellation Multi-frequency GNSS Observations at a Low-latitude Indian Location during the Ascending Phase of Solar Cycle-25
Panda, Sampad Kumar; Vankadara, Ram Kumar

C1.1-0010-24 10:00 - 10:15
Ion temperature and fraction variations during equatorial plasma bubbles[U+FF1A]A revisit of ROCSAT-1's observations
Chen, Yanhong; Chen, Hong

C1.1-0011-24 10:15 - 10:30
Aspects of Equatorial Plasma Bubble of importance to its predictability
Joshi, Lalit Mohan

Wed, Jul 17, 2024

C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies

Main Scientific Organizer: Fagundes, Paulo Roberto
Deputy Organizer: Kavutarapu, Venkatesh

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C1.2 Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras

Main Scientific Organizer: Jee, Geonhwa
Deputy Organizer: Wang, Wenbin

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C1.3 Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources

Main Scientific Organizer: Kwak, Young-Sil
Deputy Organizer: Kil, Hyosub

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C1.4 Space Weather and Earth's Atmosphere-Ionosphere

Main Scientific Organizer: Pedatella, Nicholas
Deputy Organizer: Chang, Loren

Room: EC1-313

C1.4-0001-24 09:00 - 09:15
Atmospheric ionizations by solar X-rays, solar protons and radiation belt electrons in September 2017 space weather event
Murase, Kiyoka; Kataoka, Ryuho; Nishiyama, Takanori; Sato, Kaoru; Tsutsumi, Masaki; Tanaka, Yoshimasa; Ogawa, Yasunobu; Sato, Tatsuhiko

C1.4-0002-24 09:15 - 09:30
Signatures of particle precipitations at European middle latitudes during the March 2015 magnetic storm
Sato, Hiroatsu; Chau, Jorge L.

C1.4-0003-24 09:30 - 09:45
Response of the High Latitude Ionosphere and Atmosphere to Energetic Particle Precipitation
Mironova, Irina

C1.4-0004-24 (WITHDRAWN) 09:45 - 10:00
Enhancements in the red and green line airglow emissions at sub-auroral latitudes within a few minutes after substorm onsets: Case studies
Rathi, Rahul; Shiokawa, Kazuo; Otsuka, Yuichi; Mani, Sivakandan

C1.4-0005-24 10:00 - 10:15
Important change of key drivers for the positive and negative ionosphere storms
Gulyaeva, Tamara; Stanislawska, Iwona

C1.4-0006-24 (WITHDRAWN) 10:15 - 10:30
Exploring Geomagnetic Storm Evolution and Ionospheric Disturbance Dynamo Response Over Solar Cycle 24
Raja Halim Shah, Raja Adibah; Abdul Hamid, Nurul Shazana; Abdullah, Mardina; Ainul Annuar, Nur Adlyka; Sarudin, Idahwati

Coffee Break

Room: EC1-313

C1.4-0007-24 11:00 - 11:15
Correlation of Swarm in-situ electron density with geomagnetic indices and solar activity parameters at different frequency bands
Jarmołowski, Wojciech; Wielgosz, Pawel; Milanowska, Beata; Krypiak-Gregorczyk, Anna; Paziewski, Jacek

C1.4-0008-24 11:15 - 11:30
Examining variability in terrestrial exosphere during geomagnetic storm: Insights from LTPT simulation with WACCM-X Whole Atmosphere Model
Jung, Jaewoong; Connor, Hyunju; Qian, Liying

C1.4-0009-24 11:30 - 11:45
Effects of Forbush Decreases on the Global Electric Circuit
Li, Gang; Tacza Anaya, José Carlos

C1.4-0010-24 11:45 - 12:00
Ion convection and its impacts on the thermospheric winds from the TIEGCM simulation in the southern polar cap region
Ham, Young-Bae; Jee, Geonhwa

C1.4-0011-24 12:00 - 12:15
Global response of topside ionosphere to the severe geomagnetic storm of April 2023
Lakshmi Narayanan, Viswanathan

C1.4-0012-24 (WITHDRAWN) 12:15 - 12:30
Analyzing the intensities of activities across three recent solar cycles with the inclusion of space weather events
Abdo Jamal, Ahmad Yusof; Abdul Hamid, Nurul Shazana; Sarudin, Idahwati

Lunch Break

Room: EC1-313

C1.4-0013-24 15:00 - 15:15

Statistic Equatorial Plasma Bubble Occurrence in Malaysia and Its Causality with Counter Electrojet Current
Mohd Rosli, Nur Izzati; Abdul Hamid, Nurul Shazana; Abdullah, Mardina; Sarudin, Idahwati; M Buhari, Suhaila

C1.4-0014-24 15:15 - 15:30

Estimating the occurrence of post-sunset equatorial F region plasma plumes by a statistical model derived from the CHAMP and Swarm missions
Stolle, Claudia; Siddiqui, Tarique; das, Suman Kumar; Schreiter, Lucas; Xiong, Chao; Rusch, Ina; Wan, Xin; Rother, Martin

C1.4-0015-24 15:30 - 15:45

Extracting GNSS ionospheric scintillation factor from multi-sampling interval geodetic receiver data
Zhao, Dongsheng; Zhang, Kefei; Li, Longjiang; Wu, Suqin

C1.4-0016-24 15:45 - 16:00

The Study of the Ionospheric Scintillation Variation based on multi-parameters from GPS observation in Nanning, China
Zeng, Yi; Zhang, Donghe

C1.4-0017-24 16:00 - 16:15

A regional three-dimensional model of the sporadic E layers
Qiu, Lihui

C1.4-0018-24 (WITHDRAWN) 16:15 - 16:30

Assessing Ionospheric Scintillation in Brazil: Implications for GNSS Aerial Navigation
Galera Monico, Joao Francisco; Santos Silva, Mariana; Moraes, Alison

Coffee Break

Room: EC1-313

C1.4-0019-24 09:00 - 09:15

Short Zonal Scale Sizes of Gravity waves: Possible Precursors to the Occurrence of Equatorial Plasma Bubbles
Saha, Sovan; Pallamraju, Duggirala; Ghodpage, Rupesh

C1.4-0020-24 09:15 - 09:30

Revisiting the Ionospheric Disturbances over Low Latitude Region of China during Super Typhoon Hato
Li, Ke; Zhang, Donghe

C1.4-0021-24 09:30 - 09:45

Thermosphere UFKW Structures and Ionosphere Coupling as Observed by ICON
Forbes, Jeffrey M; Zhang, Xiaoli; Englert, Christoph R.; Heelis, Roderick; Stevens, Michael; Harding, Brian; Harlander, John; Marr, Kenneth; Makela, Jonathan J.; Immel, Thomas

C1.4-0022-24 09:45 - 10:00

Day-to-day variation in the ionosphere caused by upward propagating planetary waves
Miyoshi, Yasunobu; Tao, Chihiro; Shinagawa, Hiroyuki; Jin, Hidekatsu; Fujiwara, Hitoshi

C1.4-0023-24 10:00 - 10:20 (solicited)

Impact of the lower-thermospheric circulation on the annual oscillation in the thermosphere
Wang, Jack; Yue, Jia; Wang, Wenbin; Qian, Liying; Wu, Haonan; Lin, Dong

Wed, Jul 17, 2024

C1.4 Space Weather and Earth's Atmosphere-Ionosphere

Main Scientific Organizer: Pedatella, Nicholas
Deputy Organizer: Chang, Loren

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C2.1 Gravity Waves and Turbulence in the Middle Atmosphere and Lower Ionosphere

Main Scientific Organizer: Wing, Robin
Deputy Organizer: Strelnikov, Boris

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres

Main Scientific Organizer: Haider, Syed A.
Deputy Organizer: Kuroda, Takeshi

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C4.2 Development of first-principles and empirical models related to the COSPAR International Reference Atmosphere

Main Scientific Organizer: Bruinsma, Sean
Deputy Organizer: Pilinski, Marcin

Room: EC1-312

C4.2-0001-24 09:00 - 09:15
Standards for the Earth's Atmosphere
Rees, David

C4.2-0002-24 (WITHDRAWN) 09:15 - 09:30
Progress and Challenges in Estimating Drag Coefficients Appropriate for Atmospheric Model Construction
Pilinski, Marcin; Minton, Tim; Xu, Chenbiao

C4.2-0003-24 09:30 - 09:45
Modelling Surface Roughness for Gas-Surface Interaction in Orbital Aerodynamics
Anton, Sabin-Viorel; Siemes, Christian; Visser, Pieter N.A.M.

C4.2-0004-24 09:45 - 10:00
Thermospheric in-situ neutral densities from GRACE and GRACE-FO data: Approach, validation and comparison
Woeske, Florian; Fumenti, Federico; Rievers, Benny; Huckfeldt, Moritz

C4.2-0005-24 10:00 - 10:15
Comparison of DTM2020 with GRACE-FO data and preparation of the next release
Bruinsma, Sean

C4.2-0006-24 10:15 - 10:30
Impact of lower atmosphere forcing on satellite reentry
Yue, Jia; Bruinsma, Sean; Wang, Jack; Pedatella, Nicholas; Kuznetsova, Maria

Coffee Break

Room: EC1-312

C4.2-0007-24 11:00 - 11:15
Thermospheric modeling capabilities assessment built upon NASA/CCMC CAMEL framework
Wang, Jack; Mullinix, Richard; Yue, Jia; Bruinsma, Sean; Wiegand, Chiu; Pettit, Joshua; Kubaryk, Adam; Kuznetsova, Maria; Mays, M. Leila

C4.2-0008-24 11:15 - 11:35 (solicited)
Reduced Order Probabilistic Emulator: A path to operationalizing physics-based thermosphere models
Mehta, Piyush

C4.2-0009-24 11:35 - 11:50 (solicited)
Projections of Thermosphere Neutral Density due to Increasing Greenhouse Gases
Pedatella, Nicholas; Liu, Hanli; McInerney, Joseph; Liu, Huixin

C4.2-0010-24 11:50 - 12:10 (solicited)
Neutral Density Modeling Activities at NOAA Space Weather Prediction Center
Kubaryk, Adam; Fang, Tzu-Wei; Fuller-Rowell, Tim; Li, Zhuxiao; Maute, Astrid; Millward, George

C4.2-0011-24 12:10 - 12:30 (solicited)
Improving thermospheric neutral density forecasting with the NOAA/WAM-IPE model
Berger, Thomas; Chamberlin, Phillip; Fuller-Rowell, Tim; Kubaryk, Adam; Maruyama, Naomi; Sutton, Eric; Huang, Zhenguang; Pulkkinen, Tuija; Ridley, Aaron; Toth, Gabor; Welling, Daniel; Zou, Shasha; Gombosi, Tamas; Baker, Daniel N.; Laskar, Fazlul; Miesch, Mark; Lucas, Greg; Pedatella, Nicholas

Wed, Jul 17, 2024

C4.2 Development of first-principles and empirical models related to the COSPAR International Reference Atmosphere

Main Scientific Organizer: Bruinsma, Sean
Deputy Organizer: Pilinski, Marcin

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

C5.1-D4.1 Dust Observations in Space and Laboratory Experiments

Main Scientific Organizer: Pavlu, Jiri
Deputy Organizer: Mann, Ingrid

Chair: Pavlu, Jiri
Room: EC1-311

C5.1-0001-24 09:00 - 09:30 (solicited)
Space Weathering of Lunar Dust – In-situ Spectral Analysis
Yeo, Li Hsia; McLain, Jason; Stubbs, Timothy

C5.1-0002-24 09:30 - 09:45
Ground testing of lunar dust simulant electrostatic charging under irradiation
Pacaud, Rémi; Matéo-Vélez, Jean-Charles; Hess, Sebastien; Ranvier, Sylvain

C5.1-0003-24 09:45 - 10:00
Dusty plasmas at the Moon: Sheath-like structure in the region of lunar terminator
Zelenyi, Lev; Popel, Sergey

C5.1-0004-24 10:00 - 10:15

Advancements in in-situ dust observation: design and capabilities of the Circum-Martian Dust Monitor (CMDM) for JAXA's Martian Moons eXploration (MMX).
Kobayashi, Masanori; Okudaira, Osamu; Hirai, Takayuki; Sasaki, Sho; Krueger, Harald; Srama, Ralf

C5.1-0005-24 10:15 - 10:30

Discussion on the future of this session
Pavlu, Jiri

Coffee Break

Chair: Pavlu, Jiri
Room: EC1-311

C5.1-0006-24 11:00 - 11:30 (solicited)

Nucleation experiments on formation of presolar grains in a microgravity environment
Kimura, Yuki

C5.1-0007-24 11:30 - 11:45

Classification and Characteristics of Six Meteor Head Echo Categories Detected at Jicamarca Radio Observatory
Li, Yanlin; Huang, Tai-Yin; Urbina, Julio

C5.1-0008-24 11:45 - 12:00

Laboratory Investigation of Extra-Terrestrial Dust in the micron-sub-micron range collected by DUSTER in the Upper Stratosphere
Rotundi, Alessandra; Della Corte, Vincenzo; Cozzolino, Fabio; Mennella, Vito; Bertini, Ivano; Inno, Laura; Dionnet, Zelia; Fiscale, Stefano; Muscari Tomajoli, Maria Teresa; Piccirillo, Alice Maria; Popa, Ciprian; Santomartino, Rosa; Tonietti, Luca; Brucato, John R.; Folco, Luigi

C5.1-0009-24 12:00 - 12:15

ELECTROMAGNETIC PHENOMENA IN PLANETARY ATMOSPHERES: INSIGHTS FROM LABORATORY EXPERIMENTS AND PLANETARY MISSIONS
Abdelaal, Mohamad

C5.1-0010-24 12:15 - 12:30

Higher than Expected Dust Fluxes Recorded by the New Horizons Student Dust Counter in the Edgeworth-Kuiper Belt at 58 au from the Sun
Doner, Alex; Horanyi, Mihaly; Stern, Alan; Parker, Joel; Verbiscer, Anne; Singer, Kelsi; Corbett, Thomas; Brandt, Pontus; Poppe, Andrew

Lunch Break

Chair: Pavlu, Jiri
Room: EC1-311

C5.1-0011-24 15:00 - 15:30 (solicited)

Observations of dust particles in the inner heliosphere using radio and plasma wave instruments aboard various spacecraft
Rackovic Babic, Kristina; Zaslavsky, Arnaud; Issautier, Karine; Meyer-Vernet, Nicole; Maksimovic, Milan; Mann, Ingrid; Kociscak, Samuel; Czechowski, Andrzej; Vaverka, Jakub; Soucek, Jan; Dudok De Wit, Thierry; Kretzschmar, Matthieu; Gasque, Lilias; Bale, Stuart; Shen, Mitchell

C5.1-0012-24 15:30 - 15:45

MAVEN has brought us new insights into the dust environment around Mars
Wang, Guangzhou; Ye, Shengyi; Wang, Jian; Wu, Han

C5.1-0013-24 15:45 - 16:00

Investigating the Response of the Earth's Magnetosphere to Interplanetary Field Enhancements
Lai, Hairong; Pan, Lin

C5.1-0014-24 16:00 - 16:15

Investigating Hypervelocity Dust Impacts on Spacecraft Materials
Pavlu, Jiri; Nouzak, Libor; Wild, Jan; Juha, Libor; Sternovsky, Zoltan; Safrankova, Jana; Nemecek, Zdenek

C5.1-0015-24 16:15 - 16:30

Reflectance of small bodies in Solar System inferred by means of the Umov effect
Zubko, Evgenij; Videen, Gorden; Shkuratov, Yuriy

Wed, Jul 17, 2024

D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres

Main Scientific Organizer: Gil, Agnieszka
Deputy Organizer: Engelbrecht, Nicholas Eugene

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D1.2 Large Scale Structure of Heliosphere and its Physical Drivers

Main Scientific Organizer: Opher, Merav
Deputy Organizer: Dialynas, Konstantinos

Models and in-situ measurements of the Very Local Interstellar Medium

Room: CON-103

D1.2-0001-24 09:00 - 09:15

Understanding Energetic Pickup Ion Heating and Dynamics in the Outer Heliosphere: Insights from New Horizons Observations
Mostafavi, Parisa; Brandt, Pontus; Adhikari, Laxman; Zank, Gary; Hill, Matthew; Opher, Merav; Shrestha, Bishwas L.; Kornbleuth, Marc; McNutt, Ralph; McComas, David; Stern, Alan; Poppe, Andrew; Singer, Kelsi; Verbiscer, Anne; Parker, Joel

D1.2-0002-24 09:15 - 09:30

Latitudinal structure of the solar wind from observations of the helioglow
Bzowski, Maciej; Porowski, Czeslaw; Kubiak, Marzena A.; Strumik, Marek; Kowalska-leszczyńska, Izabela

D1.2-0003-24 09:30 - 09:45

Empirical approach in the Solar Wind and neutral hydrogen ionization rates study based on principal components decomposition.
Porowski, Czeslaw; Bzowski, Maciej

D1.2-0004-24 09:45 - 10:00

Sensitivity of the helioglow to variation of the total ionization rate and solar Lyman-alpha emission
Kowalska-leszczyńska, Izabela; Kubiak, Marzena A.; Bzowski, Maciej; Strumik, Marek

D1.2-0005-24 10:00 - 10:15

Interstellar Neutral Hydrogen in the Heliosphere
Swaczyna, Paweł; Bzowski, Maciej; Dialynas, Konstantinos; Dyke, Lucas; Fraternale, Federico; Galli, Andre; Heerikhuisen, Jacob; Kornbleuth, Marc; Koutroumpa, Dimitra; Kowalska-leszczyńska, Izabela; Kubiak, Marzena A.; Mueller, Hans R.; Opher, Merav; Rahmanifard, Fatemeh

D1.2-0006-24 10:15 - 10:30

Effects of elastic H+H, H+p collisions on the observable properties of interstellar atoms in the heliosphere
Titova, Anastasia; Izmodenov, Vladislav; Korolkov, Sergey

Coffee Break

Global Heliosphere Models and Astropheres

Room: CON-103

D1.2-0007-24 11:00 - 11:20 (solicited)

Probing the Interstellar Boundary through ENAs: Upcoming Science from IMAP
Reisenfeld, Dan Team: IMAP ENA Science Team p. 452

D1.2-0008-24 11:20 - 11:40

Large-scale structures in the ENA all-sky maps over three orders of magnitude in energy
Sokol, Justyna M.

D1.2-0009-24 11:40 - 11:55

Observations of heliospheric Energetic Neutral Atoms below solar wind energies: Lessons learnt from IBEX and prospects for IMAP
Galli, Andre; Wurz, Peter; Schwadron, Nathan; Möbius, Eberhard; Fuselier, Stephen; Sokol, Justyna M.; Bzowski, Maciej; Dialynas, Konstantinos; McComas, David

D1.2-0010-24 11:55 - 12:10

A study of variation of the heliosheath energy density due to changes in the solar wind dynamic pressure using IBEX
Walia, Nehpreet; Reisenfeld, Dan; Beesley, Lauren; Janzen, Paul; Kim, Thomas; Merrill, Asher; Noh, Sung Jun; Osthus, Dave; Zirnstein, Eric

D1.2-0011-24 12:10 - 12:30

A numerical model for understanding the pickup ion dynamics outside the heliopause and IBEX "ribbon" observations
Guo, Fan; Huang, Yifan; Zirnstein, Eric; Li, Hui; Reisenfeld, Dan; Heerikhuisen, Jacob

Lunch Break

Solar Wind, Pickup Ions and Interstellar Neutrals

Room: CON-103

D1.2-0012-24 15:00 - 15:20 (solicited)

Voyager observations of the interstellar medium
Richardson, John Team: Voyager Team p. 461

D1.2-0013-24 15:20 - 15:40 (solicited)

Pressure anisotropies in the very local interstellar medium
Florinski, Vladimir; Balsara, Dinshaw; Bhoriya, Deepak; Sharma, Swati

D1.2-0014-24 15:40 - 15:55

Implications of 40-139 keV ion anisotropies from V1/LECP toward characterizing the VLISM: has V1 entered a new regime?
Dialynas, Konstantinos; Krimigis, Stamatios; Decker, Robert; Hill, Matthew; Nikoukar, Romina

D1.2-0015-24 15:55 - 16:10

Characteristics of IBEX ribbon and its implications for the interstellar magnetic field
Noh, Sung Jun; Reisenfeld, Dan; Beesley, Lauren; Zirnstein, Eric; Osthus, Dave; Kim, Thomas; Janzen, Paul; Walia, Nehpreet; Chen, Yue; Merrill, Asher

D1.2-0016-24 16:10 - 16:30

Inferring the Interstellar Magnetic Field Direction from Energetic Neutral Atom Observations of the Heliotail
Kornbleuth, Marc; Powell, Erick; Opher, Merav; Dayeh, Maher; Sokol, Justyna M.; Chen, Yuxi; Turner, Drew; Baliukin, Igor; Dialynas, Konstantinos; Izmodenov, Vladislav

Coffee Break

Energetic Neutral Atoms from IBEX, INCA and the upcoming IMAP

Room: CON-103

D1.2-0017-24 09:00 - 09:20 (solicited)

Moscow kinetic-MHD model of the global heliosphere: latest developments and further challenges
Izmodenov, Vladislav; Korolkov, Sergey; Alexashov, Dmitry; Baliukin, Igor

D1.2-0018-24 09:20 - 09:35

Heliosphere in the local interstellar medium: Global structure from the physics perspective
Pogorelov, Nikolai; Fraternale, Federico; Bera, Ratan; Gedalin, Michael; Heerikhuisen, Jacob; Kim, Tae; Roytershteyn, Vadim; Zhang, Ming

D1.2-0019-24 09:35 - 09:55

Numerical Modeling the Outer Heliosphere
Toth, Gabor; Opher, Merav; Van der Holst, Bart; Florinski, Vladimir; Chen, Yuxi; Kornbleuth, Marc

D1.2-0020-24 09:55 - 10:10

Solar wind with Hydrogen Ion charge Exchange and Large-Scale Dynamics (SHIELD) DRIVE Science Center
Opher, Merav

D1.2-0021-24 10:10 - 10:30

How to See the Astrospheres and Winds of Cool Main-Sequence Stars
Drake, Jeremy; Foster, Adam; Swaroop, Arnav; Wargelin, Bradford; Vasudevan, Gopal; Garraffo, Cecilia; Kashyap, Vinay; Alvarado Gómez, Julián David; Cohen, Ofer; Monsch, Kristina

Wed, Jul 17, 2024

D1.2 Large Scale Structure of Heliosphere and its Physical Drivers

Main Scientific Organizer: Opher, Merav
Deputy Organizer: Dialynas, Konstantinos

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D1.3 Magneto-plasma Structures, Streams and Flows in the Heliosphere

Main Scientific Organizer: Khabarova, Olga
Deputy Organizer: Malandraki, Olga

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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D1.5 Turbulence in the Heliosphere from the Solar Corona to the Very Local Interstellar Medium

Main Scientific Organizer: Fraternale, Federico

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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D1.6 Understanding and Predicting Solar Energetic Particle Events Across the Heliosphere

Main Scientific Organizer: Wijsen, Nicolas

Room: CON-104

D1.6-0011-24 11:00 - 11:30 (solicited)
Observations of Solar Energetic Particles Close to the Sun
Cohen, Christina

D1.6-0012-24 11:30 - 11:45
Three-stage acceleration of solar energetic particles detected by Parker Solar Probe
Chen, Xiaomin; Li, Chuan

D1.6-0013-24 11:45 - 12:00
Connecting energetic electrons at the Sun and in the Heliosphere through X-ray and radio diagnostics
Vilmer, Nicole; Paipa, David; Reid, Hamish; Maksimovic, Milan

D1.6-0014-24 12:00 - 12:15
New results on solar energetic electron events obtained from combined in-situ and remote-sensing observations from Solar Orbiter
Warmuth, Alexander; Vilmer, Nicole; Schuller, Frédéric Team: Solar Orbiter Joint EPD-STIX-RPW-EUI-Metis Team p. 458

D1.6-0015-24 12:15 - 12:30
Solar Energetic Electron Events Observed by Solar Orbiter and Wind on 2022 March 6
Wang, Linghua; Wenyan, Li; Wimmer-Schweingruber, Robert; Krucker, Samuel; Su, Yang

Coffee Break

Room: CON-104

D1.6-0016-24 15:00 - 15:30 (solicited)
Solar Energetic Particles measured by the Alpha Magnetic Spectrometer.
Bindi, Veronica; Consolandi, Cristina Team: AMS p. 446

D1.6-0017-24 15:30 - 15:45
The complexities of the large ground-level event (GLE) on 23 February 1956
Mccracken, Ken; Shea, Margaret; Smart, Don

D1.6-0018-24 15:45 - 16:00
Directional Distribution of Solar Energetic Particles from the 70th Ground Level Enhancement Event Using Polar Neutron Monitor Data
Kammeemoon, Wassachon; Pattarakijwanich, Petchara; Ruffolo, David; Sáiz, Alejandro

D1.6-0019-24 16:00 - 16:15
Examining Fe/O variations in large solar energetic particle events using an AI-generated synchronic potential field source surface model
Park, Jinhye; Bucik, Radoslav; Jeong, Hyun-Jin; Moon, Yong-jae

D1.6-0020-24 16:15 - 16:30

Composition variations in the May 16, 2023 solar energetic particle event

Xu, Zigong; Cohen, Christina; Muro, Gabriel; Leske, Richard; Cummings, A. C.; McComas, David; Schwadron, Nathan; Christian, Eric; Wiedenbeck, Mark; McNutt, Ralph; Mason, Glenn M.; Kouloumvakos, Athanasios; Wimmer-Schweingruber, Robert; Ho, George; Rodriguez-Pacheco, Javier

Wed, Jul 17, 2024

D1.6 Understanding and Predicting Solar Energetic Particle Events Across the Heliosphere

Main Scientific Organizer: Wijsen, Nicolas

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D1.7 Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays

Main Scientific Organizer: Ruffolo, David
Deputy Organizer: Munakata, Kazuoki

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D2.2-E3.2 Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects

Main Scientific Organizer: Dumbovic, Mateja
Deputy Organizer: Janvier, Miho

Initiation and early signatures of solar eruptive phenomena

Room: CON-101

D2.2-0001-24 15:00 - 15:30 (solicited)

Deciphering Initiation of Coronal Mass Ejections

Cheng, Xin

D2.2-0002-24 15:30 - 15:45

Identifying footpoints of pre-eruptive and coronal mass ejection flux ropes with sunspot scars

Xing, Chen; Aulanier, Guillaume; Schmieder, Brigitte; Cheng, Xin; Ding, Mingde

D2.2-0003-24 15:45 - 16:00

Radiative Magnetohydrodynamic Simulation of the Confined Eruption of a Magnetic Flux Rope: Unveiling the Driving and Constraining Forces

Wang, Can; Chen, Feng; Ding, Mingde; Lu, Zekun

D2.2-0004-24 16:00 - 16:30 (solicited)

Real-time solar flare predictions using early flare signatures

Vievering, Juliana T.; Athiray, P. S.; Buitrago-Casas, Juan Camilo; Chamberlin, Phillip; Glesener, Lindsay; Krucker, Samuel; Peck, Courtney; Peterson, Marianne; Reeves, Kathy; Savage, Sabrina; Smith, Brent; Winebarger, Amy

Coffee Break

CMEs, shocks and SEPs

Room: CON-101

D2.2-0005-24 (WITHDRAWN) 09:00 - 09:15

Investigating the effect of data-driving in magnetic field simulations of solar eruptions

Wagner, Andreas; Bourgeois, Slava; Price, Daniel; Kumari, Anshu; Pomoell, Jens; Poedts, Stefaan; Barata, Teresa; Erdelyi, Robert; Kilpua, Emilia

D2.2-0006-24 09:15 - 09:30

Role of poloidal magnetic field and helicity injection in a breakout CME eruption.

Vashishtha, Nitin; Pant, Vaibhav; Talpeanu, Dana-Camelia; Banerjee, Dipankar

D2.2-0007-24 09:30 - 10:00 (solicited)

Internal Structure and Evolution of CMEs through WISPR and SoloHI Heliospheric Imagers

Shaik, Shaheda Begum; Linton, Mark; Colaninno, Robin; Hess, Phillip

D2.2-0008-24 (WITHDRAWN) 10:00 - 10:30 (solicited)

Recent advances in SEP research from data-driven modeling of CME-driven shock waves and simulations of SEP acceleration and transport.

Kouloumvakos, Athanasios; Wijsen, Nicolas; Waterfall, Charlotte; Afanasiev, Alexandr; Dalla, Silvia; Papaioannou, Athanasios; Jebaraj, Immanuel; Lario, David; Rouillard, Alexis; Vainio, Rami

Wed, Jul 17, 2024

D2.2-E3.2 Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects

Main Scientific Organizer: Dumbovic, Mateja
Deputy Organizer: Janvier, Miho

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D2.3-E3.3 Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies

Main Scientific Organizer: Büchner, Jörg
Deputy Organizer: Hoshino, Masahiro

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D2.4-E3.4 STEREO's Journey around the Sun: An Era of Single and Multi-spacecraft Observations from 2007 to 2024

Main Scientific Organizer: Lugaz, Noé
Deputy Organizer: Wimmer-Schweingruber, Robert

Room: CON-102

D2.4-0001-24 09:00 - 09:30 (solicited)
An Overview of the STEREO Mission
Kucera, Therese

D2.4-0002-24 09:30 - 09:45
How Stereoscopic Observations can help determine CME 3-D Geometry with Uncertainty Analysis?
Zhang, Jie; Nikou, Eleni; Dhakal, Suman; Dupertuis, Matthew

D2.4-0003-24 09:45 - 10:00
Recent Multi-Spacecraft Measurements of Large-Scale Transients Near 1 AU by STEREO-A and L1 Spacecraft
Lugaz, Noé; Galvin, Antoinette; Banu, Sahanaj; Al-Haddad, Nada; Zhuang, Bin; Moestl, Christian; Lee, Christina O.; Davies, Emma; Winslow, Reka

D2.4-0004-24 10:00 - 10:15
Interplanetary Magnetic Field Evolution of Coronal Mass Ejection from Bepicolombo at 0.67 Au Up to Mars
Chi, Yutian; Shen, Chenglong; Zhong, Zhihui; Mao, Dongwei; Xu, Mengjiao; Zhang, Zhiyong; Wang, Yuming

D2.4-0005-24 10:15 - 10:30
Insights Into the Fundamental Properties of CMEs from STEREO and Multi-Spacecraft Measurements
Al-Haddad, Nada; Yu, Wenyuan; Lugaz, Noé; Galvin, Antoinette; Zhuang, Bin; Farrugia, Charles; Regnault, Florian; Winslow, Reka

Coffee Break

Room: CON-102

D2.4-0006-24 11:00 - 11:20 (solicited)
The past and future of corona transient research with the remote sensing observations from STEREO
Braga, Carlos Roberto; Vourlidas, Angelos; Howard, Russell; Stenborg, Guillermo

D2.4-0007-24 (WITHDRAWN) 11:20 - 11:40 (solicited)
Multi-spacecraft observations of solar radio bursts to probe the heliospheric plasma
Musset, Sophie

D2.4-0008-24 11:40 - 12:00 (solicited)
Space weather forecasting using STEREO-A as a sub-L1 solar wind monitor
Davies, Emma; Weiler, Eva; Moestl, Christian; Amerstorfer, Tanja; Amerstorfer, Ute; Ruedisser, Hannah; Bailey, Rachel; Veronig, Astrid; Horbury, Timothy; Lugaz, Noé; Le Louëdec, Justin; Bauer, Maike

D2.4-0009-24 12:00 - 12:15
Using multispacecraft data to test a new method to measure Forbush decreases and probe CME evolution
Dumbovic, Mateja; Kirin, Anamarija; Kramaric, Luka; Heber, Bernd; Hörlöck, Malte; Benko, Ilona; Martinic, Karmen; Vrsnak, Bojan

D2.4-0010-24 12:15 - 12:30
Parker Solar Probe orbit 16 observations of SEP events with STEREO and ACE
Muro, Gabriel; Cohen, Christina; Christian, Eric; Cummings, A. C.; De Nolfo, Georgia; Desai, Mihir; Giacalone, Joe; Labrador, Allan; Leske, Richard; McComas, David; Mitchell, Donald; Mitchell, John Grant; Rankin, Jamie; Schwadron, Nathan; Sharma, Tejaswita; Shen, Mitchell; Szalay, Jamey; Wiedenbeck, Mark; Xu, Zigong; Bale, Stuart; Pulupa, Marc; Kasper, Justin; Romeo, Orlando; Vourlidas, Angelos; Larson, Davin; Whittlesey, Phyllis

Lunch Break

Room: CON-102

D2.4-0011-24 15:00 - 15:20 (solicited)
How STEREO can serve to understand and derive the space weather environment for Mars
Guo, Jingnan

D2.4-0012-24 15:20 - 15:35
Understanding Gradual Solar Energetic Particle Events Associated with the Twin-CME Scenario by Combining STEREO Observations
Zhuang, Bin; Lugaz, Noé

Wed, Jul 17, 2024

D2.5-E3.5 Impact of the Inhomogeneous Solar Corona and Solar wind on CME Evolution

Main Scientific Organizer: Jang, Soojeong
Deputy Organizer: Jin, Meng

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D3.1 Highlights of Magnetospheric Plasma Physics

Main Scientific Organizer: Nykyri, Katariina
Deputy Organizer: Zelenyi, Lev

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D3.2 Cross-scale Coupling and Multi-point Observations in the Solar Wind and Magnetosphere

Main Scientific Organizer: Stepanova, Marina

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D3.3 Origin of Non-thermal Distributions in Space Plasmas and their Role in Wave Generation and Heating / Acceleration of Particles

Main Scientific Organizer: Kourakis, Ioannis
Deputy Organizer: Lakhina, Gurbax Singh

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D3.4 Particle Transport Acceleration and Loss in the Earth and Planetary Magnetospheres

Main Scientific Organizer: Kim, Kyung-Chan
Deputy Organizer: Usanova, Maria

Chair: Daglis, Ioannis A.
Room: CON-101

D3.4-0013-24 09:00 - 09:15
Intense Energetic Electron Precipitation Caused by the Self-Limiting of Space Radiation
Olifer, Leonid; Mann, Ian; Chakraborty, Suman; Ozeke, Louis; Walton, Samuel; Breneman, Aaron; Murphy, Kyle

D3.4-0014-24 09:15 - 09:30
Electron microburst induced by chorus waves
Chen, Lunjin; He, Jiabei

D3.4-0015-24 09:30 - 09:45
Electron Scattering by Electrostatic Electron Cyclotron Harmonic Waves During Storm-Time
Stoll, Katja; Pick, Leonie; Wang, Dedong; Haas, Bernhard; Cao, Xing; Ni, Binbin; Shprits, Yuri

D3.4-0016-24 09:45 - 10:00

Global Survey of Energetic Electron Precipitation at Low Earth Orbit Observed by ELFIN
Qin, Murong; Li, Wen; Shen, Xiaochen; Angelopoulos, Vassilis; Selesnick, Richard; Capannolo, Luisa; Ma, Qianli; Zhang, Xiaojia; Artemyev, Anton

D3.4-0017-24 10:00 - 10:15

Resolving the Energetic Electron Precipitation due to Persisting EMIC Waves Using POES/MetOp Satellites
Li, Zhi Gu; Tu, Weichao; Selesnick, Richard; Ma, Qianli; Blum, Lauren

D3.4-0018-24 10:15 - 10:30

EMIC wave occurrence and its dependence on geomagnetic conditions: Results from 7 years of Van Allen Probes observations
Usanova, Maria

Coffee Break

Chair: Kabin, Konstantin
Room: CON-101

D3.4-0019-24 11:00 - 11:15

Modeling EMIC Wave Scattering Effects on the Dropouts of Energetic Electrons and Protons by RAM-SCB Simulations
Lyu, Xingzhi; Jordanova, Vania; Engel, Miles; Tu, Weichao; Ma, Qianli

D3.4-0020-24 11:15 - 11:30

Energetic Electron Precipitation During Substorm Injections
Zhang, Xiao-Jia; Artemiev, Anton; Zou, Ying; Angelopoulos, Vassilis

D3.4-0021-24 11:30 - 11:45

A study of EMIC wave from the creation to the extinction through Arase satellite and ground-based magnetometers multi-observation
Kwak, Jaeyoung; Hwang, Junga; Miyashita, Yukinaga; Talha, Madeeha; Miyoshi, Yoshizumi; Shiokawa, Kazuo; Jun, Chae-Woo

D3.4-0022-24 11:45 - 12:00

Comparative study of ions and electrons pressure distribution in the inner magnetosphere during CIR and CME driven storms observed by Arase satellite
Kumar, Sandeep; Miyoshi, Yoshizumi; Jordanova, Vania; Kistler, Lynn; Hori, Tomoaki; Jun, Chae-Woo; Asamura, Kazushi; Yokota, Shoichiro; Kasahara, Satoshi; Kazama, Yoichi; Wang, Shiang-Yu; Tam, Sunny W. Y.; Mitani, Takefumi; Higashio, Nana; Keika, Kunihiro; Matsuoka, Ayako; Imajo, Shun; Shinohara, Iku

D3.4-0023-24 12:00 - 12:15

Observations of oxygen ions in the dusk low-latitude boundary layer during storm main phase
Duan, Su-Ping; Dai, Lei; Wang, Chi

D3.4-0024-24 12:15 - 12:30

Development of ion energy-mass spectrum analyzer for observations of suprathermal ions originating from the ionosphere using computer simulation
Terasawa, Kenya; Nagatani, Akari; Asamura, Kazushi; Miyoshi, Yoshizumi

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D3.4 Particle Transport Acceleration and Loss in the Earth and Planetary Magnetospheres

Main Scientific Organizer: Kim, Kyung-Chan
Deputy Organizer: Usanova, Maria

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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D3.5 Role of Mesoscale Coupling as the Driver of System Level Storm and Substorm Dynamics in Geospace

Main Scientific Organizer: Grigorenko, Elena
Deputy Organizer: Gkioulidou, Matina

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D3.6 CubeSat and Small Satellite Technology Addressing Magnetospheric Challenges

Main Scientific Organizer: Lee, Jaejin
Deputy Organizer: Hwang, Kyoung-Joo

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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D3.7 Machine Learning and Data Sciences

Main Scientific Organizer: Shprits, Yuri
Deputy Organizer: Balasis, Georgios; Wing, Simon

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

D3.8 Dayside Magnetosphere Interactions

Main Scientific Organizer: Zong, Qiugang
Deputy Organizer: Lee, Dong-Hun

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

Low-Energy Cosmic rays in the local interstellar medium and in the heliosphere

Chair: Rauch, Brian
Room: CON-205

E1.1-0041-24 09:00 - 09:20 (solicited)
Voyager 1 Observations of Galactic Cosmic Ray Isotopes in the Very Local Interstellar Medium: Evidence for Primary 2H and B
Cummings, A. C.; Moskalenko, Igor; Heikkila, B. C.; Johannesson, Gudlaugur; Porter, Troy

E1.1-0042-24 09:20 - 09:40 (solicited)
Exploring Galactic Cosmic Ray Intensity: A HelMod Model Perspective
Della Torre, Stefano; Gervasi, Massimo; La Vacca, Giuseppe; Masi, Nicolò; Rancoita, Pier Giorgio

E1.1-0043-24 09:40 - 10:00 (solicited)
Low Energy Electron and Positron Spectra from the 2024 AESOP-Lite Balloon Flight
Evenson, Paul; Clem, John; Johnson, Robert; Lucas, Brian; Mangeard, Pierre-Simon; Martin, Scott; Roth, James

E1.1-0044-24 10:00 - 10:15
SuperTIGER Abundances of Galactic Cosmic Rays for the Atomic Number (Z) Interval 40 to 56
Walsh, Nathan Team: SuperTIGER p. 459

E1.1-0045-24 10:15 - 10:30
SuperTIGER ultra-heavy galactic cosmic ray abundance and energy atmospheric corrections
Osborn, Nicole; Rauch, Brian; Zober, Wolfgang Team: SuperTIGER Collaboration p. 459

Coffee Break

Observations with gamma-ray telescopes: COSI, MAGIC, VERITAS, H.E.S.S.

Chair: Wang, Xiaojie
Room: CON-205

E1.1-0046-24 11:00 - 11:20 (solicited)
Probing the Galactic Diffuse Continuum Emission with COSI
Karwin, Chris

E1.1-0047-24 11:20 - 11:40 (solicited)
Selected Observations with the MAGIC telescopes
Mirzoyan, Razmik Team: On behalf of p. 455

E1.1-0048-24 11:40 - 12:00 (solicited)
Exploring the origin of Galactic cosmic rays using the VERITAS gamma-ray observatory
Kumar, Sajan

E1.1-0049-24 12:00 - 12:20 (solicited)
Highlights from the Southern VHE gamma-ray sky with H.E.S.S.
Wagner, Stefan Team: H.E.S.S. collaboration p. 451

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E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E1.2 Advanced Timing-spectral Polarimetric Analysis and Modeling of Accreting Black Holes and Neutron Stars

Main Scientific Organizer: Mendez, Mariano
Deputy Organizer: Zdziarski, Andrzej

Spectral and temporal properties

Room: CON-202

E1.2-0020-24 09:00 - 09:30 (solicited)
Spectral-timing analysis of Cygnus X-1 with NICER
König, Ole; Mastroserio, Guglielmo; Dauser, Thomas; Mendez, Mariano; Wang, Jingyi; Garcia, Javier; Steiner, James; Pottschmidt, Katja; Ballhausen, Ralf; Connors, Riley; García, Federico; Grinberg, Victoria; Horn, David; Ingram, Adam; Kara, Erin; Kallman, Timothy; Lucchini, Matteo; Nathan, Edward; Nowak, Michael A.; Thalhammer, Philipp; van der Klis, Michiel; Wilms, Joern

E1.2-0021-24 09:30 - 09:45
Evolution along the Z track: spectro-timing observations of GX 340+0 with AstroSat
Bhargava, Yash; Bhattacharyya, Sudip; Homan, Jeroen; Pahari, Mayukh

E1.2-0022-24 (WITHDRAWN) 09:45 - 10:00
Spectral and timing studies of 4U 1636-536 observed by AstroSat
Mandal, Soma; Chattopadhyay, Suchismito; Misra, Ranjeev

E1.2-0023-24 10:00 - 10:15
X-ray spectral and timing evolution during the outburst of BHXRB – a case study of MAXI J1820+070
Li, Yaxing; Yan, Zhen; Gao, Chenxu; Yu, Wenfei

E1.2-0024-24 10:15 - 10:30
Spectral Observation of Cygnus X-2 along Z-track
Chhangte, Vanzarmawii; Roy, Jayashree; Lalthantluanga, H; Misra, Ranjeev; Zadeng, Lalthakimi

Coffee Break

X-ray polarisation 1
Room: CON-202

E1.2-0025-24 11:00 - 11:30 (solicited)
The polarization and spectral-timing properties of BHXRB Swift J1727.8-1613 during a state transition
Bollemeijer, Niek; Ingram, Adam

E1.2-0026-24 11:30 - 11:45
First detection of polarization in X-rays for 4U 1820-303 with IXPE
la Monaca, Fabio Team: on behalf of the IXPE Science team p. 455

E1.2-0027-24 11:45 - 12:00
IXPE observing weakly magnetized accreting neutron stars
Di Marco, Alessandro Team: on behalf of the IXPE science team p. 455

E1.2-0028-24 12:00 - 12:15
AstroSat and IXPE view of black hole transient Swift J1727.8-1613: Detection of LFQPO up to 100 keV and polarization
Majumder, Seshadri; das, Santabrata; Nandi, Anuj

E1.2-0029-24 12:15 - 12:30
Analytical model for polarized radiation coming from the spreading layer of the weakly magnetized neutron stars
Bobrikova, Anna; Poutanen, Juri

Lunch Break

X-ray polarisation 2 / Analysis techniques
Room: CON-202

E1.2-0030-24 15:00 - 15:15
Unveiling New Realities: IXPE observations challenge standard thin accretion disk model in black hole binary 4U 1630-47
Ratheesh, Ajay

E1.2-0031-24 15:15 - 15:30
A new algorithm to detect the shot noise in Cyg X-1
Qin, Jin; Feng, Hua

E1.2-0032-24 15:30 - 15:45
NDspec: a new Python-based modelling software for multi-dimensional model fitting
Lucchini, Matteo; Uttley, Phil

E1.2-0033-24 15:45 - 16:05
No country for broadband: Unveiling hidden variability components in accreting X-ray binaries using both the Fourier power and cross spectra
Mendez, Mariano

Coffee Break

Round Table discussion (90 minutes)
Chair: Mendez, Mariano
Room: CON-202

E1.2-0034-24 15:00 - 15:30
Round-the-table discussion of different spectral-timing models (*** NOTICE: Duration is 90 minutes!! *****)**
Mendez, Mariano

E1.2-0035-24 15:30 - 16:00
Round-the-table discussion of different spectral-timing models (*** NOTICE: Duration is 90 minutes!! *****)**
Mendez, Mariano

E1.2-0036-24 16:00 - 16:30
Round-the-table discussion of different spectral-timing models (*** NOTICE: Duration is 90 minutes!! *****)**
Mendez, Mariano

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E1.3 Space-ground Scientific and Exploitation Synergies and Challenges

Main Scientific Organizer: Giménez, Alvaro
Deputy Organizer: Ubertini, Pietro

Room: CON-110

E1.3-0001-24 09:00 - 09:30 (solicited)
The importance of multi-instrument investigation for Natural Hazard
D'angelo, Giulia; Piersanti, Mirko; Papini, Emanuele; Diego, Piero; Ubertini, Pietro

E1.3-0002-24 09:30 - 10:00 (solicited)
The CSES (China Seismo-Electromagnetic Satellite) program: a multi-instrument space observatory for investigating the near-Earth electromagnetic, plasma and particle environment
De Santis, Cristian Team: the CSES-Limadou Collaboration p. 459

E1.3-0003-24 10:00 - 10:30 (solicited)
Dark and Quiet Skies: Astronomy and Large Satellite Constellations
Hwang, Narae; Di Vruno, Federico; Walker, Constance; Green, Richard; Benvenuti, Piero

Coffee Break

Room: CON-110

E1.3-0004-24 11:00 - 11:30 (solicited)
Pushing the limits of high-resolution astrophysics: the Black Hole Explorer
Gurvits, Leonid; Johnson, Michael; Akiyama, Kazunori; Galison, Peter; Gomez, Jose L.; Houston, Janice; Kurczynski, Peter; Lupsasca, Alexandru; Marrone, Daniel; Wang, Jade

E1.3-0005-24 11:30 - 11:50 (solicited)
UNRAVELING THE TRIUMPHS AND TRIALS OF THE INTEGRAL PROJECT
Dubrovina, Olga

E1.3-0006-24 11:50 - 12:10
Update on CASTOR: Technical Design, Mission Architecture and Status
Cote, Patrick; Amenouche, Melissa

E1.3-0007-24 12:10 - 12:30
Update on CASTOR: the science mission
Amenouche, Melissa; Cote, Patrick

Lunch Break

Room: CON-110

E1.3-0008-24 15:00 - 15:30 (solicited)
Exploring the transient hard X-ray/soft gamma-ray sky in the next decade
Natalucci, Lorenzo

E1.3-0009-24 15:30 - 15:50
DART: DAocheng Radio Telescope system and early results
Yan, Jingye; Wu, Lin; Zhao, Xinhua; Deng, Li; Yuan, Mao; Yang, Yang; Lv, Xuning; Wu, Ji; Wang, Chi

E1.3-0010-24 15:50 - 16:10
DART: SIGNAI PROCESSING AND CALIBRATION
Wu, Lin; Yan, Jingye; Zhao, Xinhua; Deng, Li; Yuan, Mao; Yang, Yang; Lv, Xuning; Wu, Ji; Wang, Chi

E1.3-0011-24 16:10 - 16:30
The Decametric Explorer (DEX): a clean look at neutral hydrogen cosmology from the lunar far side
Brinkerink, Christiaan; Gurvits, Leonid; Boonstra, Albert-Jan; Klein-Wolt, Marc; Rajan, Raj Thilak; Koopmans, Leon

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E1.3 Space-ground Scientific and Exploitation Synergies and Challenges

Main Scientific Organizer: Giménez, Alvaro
Deputy Organizer: Ubertini, Pietro

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E1.4 Spectral Mapping Surveys of the Universe

Main Scientific Organizer: Jeong, Woong-Seob
Deputy Organizer: Im, Myungshin

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E1.5 Illuminating Gravitational Waves and their Environments

Main Scientific Organizer: Troja, Eleonora
Deputy Organizer: Im, Myungshin

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E1.6 Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations

Main Scientific Organizer: Natalucci, Lorenzo
Deputy Organizer: Branchesi, Marica

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E1.7 Black Hole Astrophysics: Theory and Simulations Confront Observations

Main Scientific Organizer: Chakrabarti, Sandip Kumar
Deputy Organizer: Laurent, Philippe

Observational Aspects

Chair: Chakrabarti, Sandip Kumar
Room: CON-107

E1.7-0001-24 09:00 - 09:30 (solicited)
Isolated Stellar Mass Black Holes in the Galaxy: Method, First Detection, and Implications
Sahu, Kailash

E1.7-0002-24 (WITHDRAWN) 09:30 - 09:50
How does the black hole spin evolve in X-ray binary?
Yan, Zhen; Zhang, Wenda; Yu, Wenfei

E1.7-0003-24 (WITHDRAWN) 09:50 - 10:10
The efficiency of black hole formation via collisions in stellar systems: An analysis of data from simulations and observations
Cortes Vergara, Marcelo; Schleicher, Dominik; Escala, Andres; Spurzem, Rainer

E1.7-0004-24 (WITHDRAWN) 10:10 - 10:30
Study of tilted, truncated discs around black holes
Bollimpalli, Deepika

Coffee Break

Theoretical developments -I

Chair: Zdziarski, Andrzej
Room: CON-107

E1.7-0005-24 11:00 - 11:30 (solicited)
On the Black Hole (BH) irreducible mass (M_irr) and the rotational energy extraction process
Ruffini, Remo; Bianco, Carlo Luciano; Kerr, Roy Patrick; Quevedo, Hernando; Rueda Hernandez, Jorge Armando; Sonnino, Giorgio

E1.7-0006-24 (WITHDRAWN) 11:30 - 11:50
The binary-driven hypernova model of long GRBs, its seven observational episodes, and evolutionary connection with short GRBs
Rueda Hernandez, Jorge Armando; Ruffini, Remo; Fryer, Chris; Becerra Bayona, Laura Marcela; Bianco, Carlo Luciano; Moradi, Rahim; Guidorzi, Cristiano; Aimuratov, Yerlan; Xue, She-Sheng

E1.7-0007-24 11:50 - 12:10
What mechanism makes the compact star in the high-mass X-ray binary Cygnus X-3?
Kim, Jeong-Sook

E1.7-0008-24 12:10 - 12:30
New Results and Future Prospects for Detailed Accretion Disk Physics with Rapid Optical Timing
Smith, Krista Lynne

Lunch Break

Theoretical developments -II

Chair: Charles, Philip
Room: CON-107

E1.7-0009-24 15:00 - 15:30
Simulations of wind accretion and Roche-lobe overflow in Low and High-mass binaries
Chakrabarti, Sandip Kumar

E1.7-0010-24 15:30 - 15:50
Three Dimensional Simulations of Advective, Sub-Keplerian Accretion Flow onto Non-rotating Black Holes
Garain, Sudip Kumar

E1.7-0011-24 15:50 - 16:10
Simulations of IMBH host and galaxy merger remnant candidate, NGC 5252
Boonmalai, Manus; Sawangwit, Utane; Wannawichian, Suwicha

E1.7-0012-24 16:10 - 16:30
Particle acceleration and radiation of the jet in M87: confronting jet morphology with theory
Yuan, Feng

Coffee Break

Theoretical developments-III

Chair: Zdziarski, Andrzej
Room: CON-107

E1.7-0013-24 15:00 - 15:30 (solicited)
Accretion-ejection connection in accreting black holes
Corbel, Stephane

E1.7-0014-24 15:30 - 15:50
Origin of core radio emissions from black hole sources: Possible role of relativistic magnetized shocked accretion flow
das, Santabrata; Jana, Camelia; Nandi, Anuj

E1.7-0015-24 15:50 - 16:10
The effect of hot gas condensation and its application in black hole X-ray binaries
Wang, Yilong; Liu, Bifang

E1.7-0016-24 16:10 - 16:30
Simulation studies of radiation RMHD accretion flows around spinning black holes: a comparative study of MAD and SANE state
Aktar, Mohammed Ramiz; Pan, Kuo-Chuan; Okuda, Toru

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E1.7 Black Hole Astrophysics: Theory and Simulations Confront Observations

Main Scientific Organizer: Chakrabarti, Sandip Kumar
Deputy Organizer: Laurent, Philippe

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E1.8 Solving the Accretion/Ejection Puzzle in AGN: Synergies and Clashes in the Central kpc

Main Scientific Organizer: Bruni, Gabriele
Deputy Organizer: Molina, Manuela

Theory: resolved simulations of jets and winds at different regimes

Room: CON-201

E1.8-0023-24 11:00 - 11:15
Simulations of low-power relativistic jets: FR0s and recollimation instabilities
Costa, Agnese; Bodo, Gianluigi; Tavecchio, Fabrizio; Rossi, Paola

E1.8-0024-24 11:15 - 11:30
Non-ideal processes in astrophysical jets: the impact of resistivity and dynamo
Mattia, Giancarlo; Del Zanna, Luca; Fendt, Christian; Mignone, Andrea; Bugli, Matteo

E1.8-0025-24 11:30 - 11:45
A Simulation Study on Relativistic Jets: Impact of the Central kpc Region on Jets across Different Scales
Bhattacharjee, Ayan

E1.8-0026-24 11:45 - 12:00
Outflow from a Low Angular Momentum, Shocked Accreting Gas onto a Supermassive Black Hole
Garain, Sudip Kumar; Kissinquinker, Bungkiu

E1.8-0027-24 12:00 - 12:15
Journey into the Galaxy: losing the Feedback Loop by Bridging the Event Horizon and Galaxy Scales
Lalakos, Aretaios; Tchekhovskoy, Alexander; Bromberg, Omer; Liska, Matthew; Zhang, Haocheng

E1.8-0028-24 12:15 - 12:30
Astrophysical Jets In Binary Systems
Sepahvand, Mostafa

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E1.8 Solving the Accretion/Ejection Puzzle in AGN: Synergies and Clashes in the Central kpc

Main Scientific Organizer: Bruni, Gabriele
Deputy Organizer: Molina, Manuela

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E1.11 Coevolution between High-redshift Quasars and Galaxies in the Era of JWST

Main Scientific Organizer: Inayoshi, Kohei
Deputy Organizer: Silverman, John

Room: CON-108

E1.11-0029-24 11:00 - 11:30 (solicited)
Challenging galaxy evolution models with zoom-in observations of high-redshift star-forming galaxies
Rizzo, Francesca

E1.11-0030-24 11:30 - 11:45
A dynamical analysis about dark matter halo around z 6 quasars
Fei, Qinyue

E1.11-0031-24 11:45 - 12:00
Rapid mass assembly and co-evolution in z 6 low-luminosity quasars studied by ALMA
Izumi, Takuma; Matsuoka, Yoshiki; Onoue, Masafusa; Fujimoto, Seiji; Nagao, Tohru; Iwasawa, Kazushi; Kashikawa, Nobunari; Kohno, Kotaro; Umehata, Hideki; Toba, Yoshiki; Inayoshi, Kohei; Silverman, John; Inoue, Akio; Nakanishi, Koichiro; Ueda, Yoshihiro; Harikane, Yuichi

E1.11-0032-24 12:00 - 12:15
Probing the Physical Properties of the Interstellar Medium and the Circum-galactic Medium in the Early Universe
Wang, Ran; Xu, Fuxiang; Li, Jianan Team: high redshift quasars p. 452

E1.11-0033-24 12:15 - 12:30
ALMA and VLA view of a young, radiatively efficient radio-loud AGN residing in a starburst merger at z=1.92
Zhong, Yuxing

Coffee Break

Room: CON-108

E1.11-0034-24 15:00 - 15:30 (solicited)
ALMA Large Program REBELS Survey: Dust-Obscured Galaxies at Redshift 7
Inami, Hanae

E1.11-0035-24 15:30 - 15:45
Molecular Excitation in Two Optically Faint Quasars at z sim 6
Xu, Fuxiang; Wang, Ran; Li, Jianan

E1.11-0036-24 15:45 - 16:00
Quasars reside in massive dark matter halos at redshift 6
Arita, Junya; Kashikawa, Nobunari; Matsuoka, Yoshiki; He, Wanqiu; Iwasawa, Kazushi; Toba, Yoshiki Team: Collaborators p. 449

E1.11-0037-24 16:00 - 16:15
Probing quasar and galaxy dark matter halo mass at z 6.6 with clustering analysis in JWST ASPIRE survey.
Huang, Jiamu

E1.11-0038-24 16:15 - 16:30
Discussion session III
Silverman, John

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E1.11 Coevolution between High-redshift Quasars and Galaxies in the Era of JWST

Main Scientific Organizer: Inayoshi, Kohei
Deputy Organizer: Silverman, John

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E1.12 Gamma-ray Bursts in the next Decade

Main Scientific Organizer: D'avanzo, Paolo
Deputy Organizer: Bissaldi, Elisabetta

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E1.13 Observations and Prospects for X-ray Polarimetry

Main Scientific Organizer: Marshall, Herman
Deputy Organizer: Baumgartner, Wayne

X-Ray Instruments

Chair: Marshall, Herman
Room: CON-109

E1.13-0001-24 09:00 - 09:30 (solicited)
The X-ray Polarimetry Satellite XPoSat: Early Results
Paul, Biswajit

E1.13-0002-24 09:30 - 10:00 (solicited)
Progress of the enhanced X-ray Timing and Polarimetry mission (eXTP) and its potential for exploring the polarized universe
Tao, Lian; Feng, Hua; Zhang, Shuang-Nan

E1.13-0003-24 10:00 - 10:30 (solicited)
Progress on the rocket experiment demonstration of a soft x-ray polarimeter (REDSoX)
Garner, Alan; Ravi, Swati; Marshall, Herman; Heine, Sarah; Mcneil, Sean; Bongiorno, Stephen; Guenther, Moritz; Heilmann, Ralf K.; Juneau, Jill; Lamarr, Beverly; Metivier, Ace; Schulz, Norbert S.

Coffee Break

Extended Sources of Polarized X-rays

Chair: Paul, Biswajit
Room: CON-109

E1.13-0004-24 11:00 - 11:30 (solicited)
A polarized view of the pulsar wind nebulae with IXPE
Xie, Fei

E1.13-0005-24 11:30 - 11:45
Diffuse polarized X-ray emission in the center of the Milky Way
Churazov, Eugene

E1.13-0006-24 11:45 - 12:00
The X-ray Polarization Property of Vela Pulsar Wind Nebula.
Liu, Kuan

E1.13-0007-24 12:00 - 12:15
Discussion
Marshall, Herman

E1.13-0008-24 (WITHDRAWN) 12:15 - 12:30
A Study of Deconvolution Analysis Methods in Stokes Parameters Using IXPE and Chandra Data
Watanabe, Eri; Gunji, Shuichi; Shibata, Shinpei; Ohno, Hiroshi; Mori, Koji

Lunch Break

Magnetars
Chair: Xie, Fei
Room: CON-109

E1.13-0009-24 15:00 - 15:30 (solicited)
X-ray polarization from magnetar sources
Taverna, Roberto; Kelly, Ruth

E1.13-0010-24 15:30 - 15:45
Spectro-polarimetry observations of the magnetar 1RXS J170849.0-400910 with IXPE, NuSTAR, and XMM-Newton
Younes, George; Stewart, Rachael; Baring, Matthew; Wadiasingh, Zorawar; Harding, Alice; Kouveliotou, Chryssa; Negro, Michela; Dinh, Hoa

E1.13-0011-24 15:45 - 16:00
Testing QED in Magnetar Atmospheres - Polarised X-rays and Mode Conversion
Kelly, Ruth; Zane, Silvia; Turolla, Roberto; Taverna, Roberto

E1.13-0012-24 16:00 - 16:15
Modeling Polarized X-ray Emission from Magnetar Atmospheres
Dinh, Hoa; Baring, Matthew; Younes, George; Hu, Kun

E1.13-0013-24 16:15 - 16:30
Magnetar x-ray polarization results and implications
Gau, Ephraim

Coffee Break

Magnetars and Neutron Star Binaries
Chair: Marshall, Herman
Room: CON-109

E1.13-0014-24 15:00 - 15:15
Discovering the Source of Magnetar Polarisation Signatures - Particle Bombardment
Kelly, Ruth; Zane, Silvia; Turolla, Roberto; Taverna, Roberto; Gonzalez-Caniulef, Denis

E1.13-0015-24 15:15 - 15:45 (solicited)
X-ray Polarization Properties of Neutron Star Low-Mass X-ray Binaries
Gnarini, Andrea

E1.13-0016-24 15:45 - 16:00
Highly Significant Polarization in Sco X-1 with IXPE
Ia Monaca, Fabio Team: on behalf of the IXPE Science team p. 455

E1.13-0017-24 16:00 - 16:15
IXPE observations of the quintessential wind-accreting X-ray pulsar Vela X-1
Forsblom, Sofia; Tsygankov, Sergey; Poutanen, Juri; Doroshenko, Victor; Suleimanov, Valery; Mushtukov, Alexander

E1.13-0018-24 16:15 - 16:30
IXPE Polarized View on the Accretion Geometry in the X-Ray Binary Circinus X-1
Di Marco, Alessandro Team: on behalf of the IXPE science team p. 455

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E1.14 Multi-wavelength fast variability across mass scales: from neutron stars to supermassive black holes

Main Scientific Organizer: Vincentelli, Federico
Deputy Organizer: Russell, David

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E1.16 High Mass X-ray Binaries: a new View on Accretion and Reprocessing

Main Scientific Organizer: Paul, Biswajit
Deputy Organizer: Chaty, Sylvain

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E1.19 Cataclysmic Variables and Related Systems as Probes of Accretion, Binary Evolution and Thermo-nuclear Explosions

Main Scientific Organizer: Balman, Solen
Deputy Organizer: Jose, Jordi

Populations and evolution of accreting white dwarf binaries

Chair: Jose, Jordi
Room: CON-203

E1.19-0016-24 09:00 - 09:30 (solicited)
Population studies of accreting white dwarfs
Pala, Anna Francesca

E1.19-0017-24 09:30 - 10:00 (solicited)
Understanding the evolution of cataclysmic variables using space densities - SDSS leads the way with machine learning
Inight, Keith

E1.19-0018-24 10:00 - 10:20
Finding the remnants of cataclysmic variable mergers
Rui, Nicholas

Coffee Break

Populations and evolution of accreting compact binary systems
Chair: Pala, Anna Francesca
Room: CON-203

E1.19-0019-24 11:00 - 11:30 (solicited)
Weakening of magnetic braking in cataclysmic variables explains the dearth of period bouncers
Sarkar, Arnab

E1.19-0020-24 11:30 - 11:50
Aging with grace: Studying the chemical composition and evolutionary history of short-period accreting neutron stars
Fijma, Stefanie; Degenaar, Nathalie; Castro Segura, Noel; Knigge, Christian; Maccarone, Thomas

E1.19-0021-24 11:50 - 12:10
New Insights on Cataclysmic Variable Populations in Galactic Globular Clusters and the Nuclear Star Cluster
Li, Zhiyuan

E1.19-0022-24 12:10 - 12:30
Probing Intracluster Dynamics and Evolution of Globular Clusters through Cataclysmic Variable Populations
Oh, Kwangmin; Hong, Jongsuk; Hui, David; Kim, Sangin; Giersz, Mirek

Wed, Jul 17, 2024

E2.1 Energetics and dynamics in the quiet solar atmosphere and beyond

Main Scientific Organizer: Huang, Zhenghua
Deputy Organizer: Madjarska-Theissen, Maria

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E2.2 Energy and mass transport of small scales in the low solar atmosphere

Main Scientific Organizer: Lim, Eun-Kyung
Deputy Organizer: De Pontieu, Bart

Small scale Solar Transients

Chair: De Pontieu, Bart
Room: CON-106

E2.2-0001-24 09:00 - 09:30 (solicited)
Energy and mass transport of small scales in the low solar atmosphere
Peter, Hardi

E2.2-0002-24 09:30 - 09:50 (solicited)
High-resolution observations of small-scale activity in the low solar atmosphere
Rouppe van der Voort, Luc

E2.2-0003-24 09:50 - 10:10 (solicited)
Advancing Understanding of Small-scale Chromospheric Dynamics Using GST Data
Yurchyshyn, Vasyl; Yang, Xu; Lim, Eun-Kyung; Cao, Wenda

E2.2-0004-24 10:10 - 10:30 (solicited)
The relationship between UV bursts and Ellerman bombs
Chen, Yajie; Tian, Hui

Coffee Break

Small scale Solar Transients
Chair: De Pontieu, Bart
Room: CON-106

E2.2-0005-24 11:00 - 11:15
Multispectral and stereoscopic observations of small-scale intense brightening events
Eklund, Henrik; Janvier, Miho; Nelson, Chris

E2.2-0006-24 11:15 - 11:30
Solar Orbiter/EUI Observations and Bifrost MHD Simulatons of Fine-scale Dot-like Heating Events in Emerging Flux Regions
Tiwari, Sanjiv Kumar; Hansteen, Viggo; De Pontieu, Bart; Panesar, Navdeep Kaur; Berghmans, David

E2.2-0007-24 11:30 - 11:45
Heating of Whole Solar Atmosphere in an Active Region During Small-Scale Transient Related to Micro-flare
Gupta, Girjesh R

E2.2-0008-24 11:45 - 12:00
A magnetic reconnection model for the hot explosion with both ultraviolet and H wing emissions
Ni, Lei

E2.2-0009-24 12:00 - 12:15
Heating and Cooling Timescales of Transient Brightenings in the Solar Transition Region Loops
Islam, Mahbubul; Choudhury, Farzana Noshin; Jamil, Md. Rafsan; Bahauddin, Shah

E2.2-0010-24 (WITHDRAWN) 12:15 - 12:30
Diversity of compact bursts and their relation to the UV burst and Ellerman bombs
Litwicka, Michalina; Berlicki, Arkadiusz; Schmieder, Brigitte; Heinzel, Petr

Lunch Break

Observational and Theoretical Perspectives on Solar Jets
Chair: Schmieder, Brigitte
Room: CON-106

E2.2-0011-24 15:00 - 15:30 (solicited)
Small and large scale episodic events in smaller and larger scale numerical simulations spanning the convection zone to the corona.
Hansteen, Viggo

E2.2-0012-24 (WITHDRAWN) 15:30 - 15:45
Solar jet ejection from bipolar active region: SDO and IRIS observations
Devi, Pooja; Chandra, Ramesh; Kumar, Sanjay; Joshi, Reetika; Schmieder, Brigitte

E2.2-0013-24 15:45 - 16:00
Dark H Knots and Transparent Region at the top of Jets
Yang, Heesu

E2.2-0014-24 16:00 - 16:15
Magnetic Relaxation and Chromospheric Activity in the Evolution of a Transient Light Bridge within a Sunspot
Song, Donguk; Lim, Eun-Kyung; Chae, Jongchul; Kim, Yeon-Han; Katsukawa, Yukio; Yurchyshyn, Vasyl

E2.2-0015-24 16:15 - 16:30
Successive Emerging Flux Triggers Persistent Jets in the Solar Atmosphere and Associated Heating
Mishra, Sudheer; Asai, Ayumi; Mondal, Sripan; Srivastava, Abhishek K.

Coffee Break

Observational and Theoretical Perspectives on Solar Jets
Chair: Nóbrega Siverio, Daniel
Room: CON-106

E2.2-0016-24 09:00 - 09:20 (solicited)
Solar Jets: Observations and MHD models
Joshi, Reetika

E2.2-0017-24 09:20 - 09:40 (solicited)
Chromospheric features in plages and the present state of numerical modeling
Danilovic, Sanja

E2.2-0018-24 09:40 - 09:55
On the local and global story of spicules
von Fay-Siebenburgen, Robert; Dey, Sahel; Chatterjee, Piyali; Korsos, Marianna Brigitta; Liu, Jiajia; Nelson, Chris

E2.2-0019-24 09:55 - 10:10
Spectroscopic Analysis on a Spicule-like Jet Accompanying Transition Region Network Jet
Lim, Eun-Kyung; Chae, Jongchul; Yurchyshyn, Vasyl; Cho, Kyuhyoun; Yang, Heesu; Cho, Kyung-Suk; Kwak, Hannah; Song, Donguk

E2.2-0020-24 (WITHDRAWN) 10:10 - 10:30 (solicited)
Recent advances in the observation of solar spicules
Bose, Souvik

Wed, Jul 17, 2024

E2.2 Energy and mass transport of small scales in the low solar atmosphere

Main Scientific Organizer: Lim, Eun-Kyung
Deputy Organizer: De Pontieu, Bart

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E2.3 Plasma and Magnetic Field Coupling in Solar Prominences

Main Scientific Organizer: Gunár, Stanislav
Deputy Organizer: Schmieder, Brigitte

MHD simulations of the magnetic field supporting, surrounding and shaping the prominence plasma.

Chair: Luna, Manuel
Room: CON-105

E2.3-0015-24 09:00 - 09:15
Doppler Dimming and Brightening Effects in Solar Prominences
Peat, Aaron; Osborne, Christopher; Heinzel, Petr

E2.3-0016-24 09:15 - 09:30

Combined Optically Thick and Thin Net Radiative Cooling Rates in Plasma with Prominence-like Properties
Gunár, Stanislav; Heinzel, Petr; Anzer, Ulrich

E2.3-0017-24 09:30 - 10:00 (solicited)

Multiphase dynamics in the solar corona : rain and prominences!
Keppens, Rony

E2.3-0018-24 10:00 - 10:15

Prominence formation by steady vs. stochastic heating and how we can relate it to observations
Jerčić, Veronika; Jenkins, Jack; Keppens, Rony

E2.3-0019-24 10:15 - 10:30

Diagnosing magnetic structures of solar filaments from their fine structures and dynamics
Guo, Jinhan; Chen, P. F.; Guo, Yang; Schmieder, Brigitte; Poedts, Stefaan; Zhou, Yuhao

Coffee Break

MHD simulations of the magnetic field supporting, surrounding and shaping the prominence plasma.
Chair: Luna, Manuel
Room: CON-105

E2.3-0020-24 11:00 - 11:15

Mass Cycle and Dynamics of a High-Res, 3D-Simulated Quiescent Prominence
Donné, Dion; Keppens, Rony

E2.3-0021-24 11:15 - 11:45 (solicited)

Modeling the Magnetic Structure and Formation of Prominences
Torok, Tibor

E2.3-0022-24 11:45 - 12:00

How flux rope heating affects solar prominence formation
Brughmans, Nicolas; Jenkins, Jack; Keppens, Rony

E2.3-0023-24 12:00 - 12:15

One-dimensional Magnetohydrodynamic Simulations for Solar Prominence Formation Triggered by Transient Heating
Yoshihisa, Takero; Yokoyama, Takaaki; Kaneko, Takafumi

E2.3-0024-24 12:15 - 12:30

Formation of filamentary substructures in solar prominences
Lee, Minseon; Choe, Gwangson; Song, Inhyeok; Jang, Yooho; Yi, Sibaek; Kim, Sunjung

Lunch Break

Relationship of prominences to coronal rain, spicules and CMEs, and the connections between solar prominences and their stellar counterparts.
Chair: Gunár, Stanislav
Room: CON-105

E2.3-0025-24 15:00 - 15:15

Prominence formation through flux-cancellation of coronal arcades: A non-symmetric convective 3D simulation
Furuseth, Sondre Vik; Aulanier, Guillaume

E2.3-0026-24 15:15 - 15:45 (solicited)

Solar prominences and their relationship to coronal rain, jets and flares
Luna, Manuel

E2.3-0027-24 15:45 - 16:00

Large amplitude oscillations in solar filaments
Joshi, Reetika; Luna, Manuel; Schmieder, Brigitte; Moreno-Insertis, Fernando; Chandra, Ramesh

E2.3-0028-24 16:00 - 16:15

On the triggering of the huge filament oscillations of March 15, 2015
Luna, Manuel; Joshi, Reetika; Schmieder, Brigitte; Moreno-Insertis, Fernando; Liakh, Valeriia; Terradas, Jaume

E2.3-0029-24 16:15 - 16:30

Filament Eruption and EUV Loop Dynamics on 2013 March 16
Chandra, Ramesh; Demoulin, Pascal; Devi, Pooja; Schmieder, Brigitte; Joshi, Reetika

Coffee Break

Relationship of prominences to coronal rain, spicules and CMEs, and the connections between solar prominences and their stellar counterparts.
Chair: Gunár, Stanislav
Room: CON-105

E2.3-0030-24 17:00 - 17:30 (solicited)

Detecting Stellar Prominence Eruptions on a "young sun" EK Dra
Chae, Jongchul

E2.3-0031-24 17:30 - 17:45

Stellar eruptive prominence detection: insights from solar observations in the He II 304 Å line by SDO/AIA
Rojas-Quesada, Miguel; Gunár, Stanislav

E2.3-0032-24 17:45 - 18:00

Stellar CME simulations and their synthesized spectral responses
Xu, Yu; Tian, Hui; Alvarado Gómez, Julián David; Poppenhaeger, Katja

E2.3-0033-24 18:00 - 18:15

High-resolution Observations of the Dynamic Processes in the 2023 April 21 Flare
Yu, Ke; Guo, Jinhan; Qiu, Ye

E2.3-0034-24 18:15 - 18:30

The puzzling characteristics, evolution, and fate of NOAA Active Region 12665
Cabezas, Denis Pavel; Leka, K D; Kusano, Kanya; Kang, Yeongmin; Kaneko, Takafumi

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E2.3 Plasma and Magnetic Field Coupling in Solar Prominences

Main Scientific Organizer: Gunár, Stanislav
Deputy Organizer: Schmieder, Brigitte

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E2.4 Application of Machine Learning Techniques in Solar and Heliospheric Physics

Main Scientific Organizer: Chifu, Iulia
Deputy Organizer: Gafeira, Ricardo

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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E2.5 Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind

Main Scientific Organizer: van Doorsselaere, Tom
Deputy Organizer: Li, Bo

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E2.6 Developments and Applications of the Solar Magnetic Field Modelling

Main Scientific Organizer: Zhu, Xiaoshuai
Deputy Organizer: Zhao, Jie

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

E2.7 Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology

Main Scientific Organizer: Ofman, Leon
Deputy Organizer: Lee, Dong-Hun

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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F1.2 Space Microgravity Environment Utilization

Main Scientific Organizer: Choi, Gi Hyuk
Deputy Organizer: Lee, Joo-Hee

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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F2.1 Biological Effects of Space Radiation and Co-stressors

Main Scientific Organizer: Hellweg, Christine
Deputy Organizer: Schroeder, Insa Sigrid

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

F2.2 Enabling Human Space Exploration through Research on Risks and Countermeasures to Space Radiation Exposure

Main Scientific Organizer: Cucinotta, Francis
Deputy Organizer: Baiocco, Giorgio; Narici, Livio

Room: EC1-212

F2.2-0009-24 09:00 - 09:30 (solicited)
SENOLYTICS AS RADIATION COUNTERMEASURES
Burma, Sandeep; Mukherjee, Bipasha

F2.2-0010-24 09:30 - 09:50
The Effects of Space Radiation Exposure on Risk Taking Behavior in Rats
Britten, Richard; Li, Nina; Phuyal, Simran; Reid, Faith; Smits, Elliot; Alvarado Arriaga, Paola; Tamgue, Ella

F2.2-0011-24 09:50 - 10:10
Brain neurochemical parameters can mediate immune cell functions within response of CNS to ionizing radiation
Belocopitova, Ksenia; Belov, Oleg

F2.2-0012-24 10:10 - 10:30
Avasospasem Manganese as a Radiation Countermeasure
Story, Michael; Hosseini, Sorour; Ding, Lianghao

Coffee Break

Room: EC1-212

F2.2-0013-24 11:00 - 11:20
Exploring the Hazards of Space Radiation for Astronauts: Challenges in Anticipating Risks through Ground-Based Experiments and Potential Remedies
Khaksarighiri, Salman; Wimmer-Schweingruber, Robert; Guo, Jingnan; Zeitlin, Cary; Reitz, Guenther; Berger, Thomas; Matthiä, Daniel; Ehresmann, Bent; Hassler, Donald M.

F2.2-0014-24 (WITHDRAWN) 11:20 - 11:40
Epigenetic state modulation of radiation-induced DNA damage
Risca, Viviana; Plante, Ianik

F2.2-0015-24 11:40 - 12:00
Biomedical Knowledge Graph Capability for Space Biology Knowledge Gain
Sanders, Lauren; Costes, Sylvain; Soman, Karthik; Rose, Peter; Nelson, Charlotte; Sawyer, Aenor; Gebre, Samrawit; Baranzini, Sergio

Wed, Jul 17, 2024

F2.3 Space Radiations: Dosimetric Measurements and Related Models and Detector Development

Main Scientific Organizer: Berger, Thomas
Deputy Organizer: Uchihori, Yukio

International Space Station

Chair: Uchihori, Yukio
Room: EC1-213

F2.3-0001-24 09:00 - 09:20
Characterizing space radiation quality within the ISS with LIDAL detector: LET, Kinetic Energy and preliminary investigations on Quality Factors
Santi Amantini, Giorgia; Di Fino, Luca; Lunati, Luca; Boretti, Virginia; Salina, Gaetano; Monnati, Francesco; Mentana, Alice; Baiocco, Giorgio; Narici, Livio

F2.3-0002-24 09:20 - 09:35
Radiation Anisotropies inside the ISS as measured by LIDAL detector
Di Fino, Luca; Santi Amantini, Giorgia; Lunati, Luca; Boretti, Virginia; Salina, Gaetano; Monnati, Francesco; Mentana, Alice; Baiocco, Giorgio; Narici, Livio

F2.3-0003-24 09:35 - 09:55
An Update on the RadMap Telescope on the International Space Station
Losekamm, Martin J. Team: RadMap Telescope team p. 457

F2.3-0004-24 09:55 - 10:10
The DOSIS and DOSIS 3D Project to measure the radiation environment in the Columbus Laboratory of the ISS – data from 2009 - 2024
Berger, Thomas Team: DOSIS 3D - 2024 p. 450

F2.3-0005-24 10:10 - 10:30
The DORELI project: Cross checking and inter-calibrating of radiation detectors on board the Columbus Laboratory of the International Space Station
Narici, Livio; Santi Amantini, Giorgia; Di Fino, Luca; Lunati, Luca; Boretti, Virginia; Stoffle, Nicholas; George, Stuart; Campbell-Ricketts, Thomas; Berger, Thomas; Matthiä, Daniel; Burmeister, Soenke; Bruedern, Maximilian

Coffee Break

International Space Station and Beyond

Chair: Berger, Thomas
Room: EC1-213

F2.3-0006-24 11:00 - 11:20
RadLab: A Comprehensive Database and Graphical and Programming Interfaces for Biologically Relevant Space Radiation Data
Grigorev, Kirill; Miller, Jack; Uriarte Acuna, Ana; Sanders, Lauren; Lopez, Danielle; Scott, Ryan; Gebre, Samrawit; Narici, Livio; Costes, Sylvain

F2.3-0007-24 11:20 - 11:35

RADIATION AND X-RAY MEASUREMENTS WITH "SHARP-CPD" PAYLOAD ONBOARD THE TEN-KOH SPACECRAFT IN THE POLAR ORBIT
Saganti, Premkumar; Saganti, Seth; Rahman, Mahmudur; Kolluri, Sonia; Holland, Samuel; Fajardo, Isai; Okuyama, Kei-Ichi; Dachev, Tsvetan; Erickson, Gary; Cucinotta, Francis

F2.3-0008-24 (WITHDRAWN) 11:35 - 11:55

Interplanetary Radiation Measurements in 2023 and 2024 from LETS Detectors on Astrobotic Peregrine and Biosentinel
George, Stuart; Stoffle, Nicholas; Schram, Aaron; Stegeman, Luke; Santa Maria, Sergio; Semones, Edward J.

F2.3-0009-24 11:55 - 12:15 (solicited)

MSL/RAD Radiation Measurements on the Surface of Mars on the Way to Solar Maximum – New Findings & Updates
Ehresmann, Bent; Hassler, Donald M.; Zeitlin, Cary; Wimmer-Schweingruber, Robert; Khaksarighiri, Salman; Löffler, Sven; Guo, Jingnan; Matthiä, Daniel; Berger, Thomas; Reitz, Guenther

F2.3-0010-24 12:15 - 12:30

Development of on-site space radiation dosimeter for deep space missions
Kodaira, Satoshi; Naito, Masayuki

Lunch Break

Models and Calibrations

Chair: Berger, Thomas
Room: EC1-213

F2.3-0011-24 (WITHDRAWN) 15:00 - 15:20

Comparative Study of Microdosimetric Models for RBE prediction in GCR Fields
Pan, Vladimir; Tran, Linh; Parisi, Alessio; Bolst, David; Rosenfeld, Anatoly

F2.3-0012-24 15:20 - 15:40

Characterization of the secondary neutron field produced by 430 MeV/u proton, 4He, and 12C beams incident on blocks of lunar regolith simulant
Di Chicco, Augusto; Boscolo, Daria; Millán Callado, María de Los Ángeles; Wagner, Tim; Kozlova, Ekaterina; Sokolov, Alexey; Weber, Uli; Zboril, Miroslav

F2.3-0013-24 15:40 - 15:55

The Space-Dependent Energetic cosmic ray Modulation using MAgnetic spectrometer model and its Induced Radiation Dose Rate between Earth's and Mars' Orbits
Huo, Ran; Song, Xiaojian; Luo, Xi; Xu, Songying; Chen, Xuemei

F2.3-0014-24 15:55 - 16:10

Energy range requirements for space dosimetry
Dobynde, Mikhail

F2.3-0015-24 16:10 - 16:25

An improved method to localize the heavy ions hitting the embryos of rice seeds for radiobiological experiments
Zhang, Binquan; Zhou, Dazhuang; Zhang, Shenyi; Zhang, Meng; Wang, Wei; Sun, Yeqing; Zhang, Xianguo

Wed, Jul 17, 2024

F2.4 Genetic Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight

Main Scientific Organizer: Sun, Yeqing
Deputy Organizer: Wu, Honglu

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

F3.1 Chemical Complexity of Molecular Universe

Main Scientific Organizer: das, Ankan
Deputy Organizer: Puzzarini, Cristina

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

F3.2 Astrobiology and Exploration

Main Scientific Organizer: Rettberg, Petra
Deputy Organizer: Antunes, André

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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F4.1 Advances in Life Support Technologies and Test Bed Facilities

Main Scientific Organizer: Verseux, Cyprien
Deputy Organizer: Poulet, Lucie

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

F4.2 Influence of Spaceflight Environments on Biological Systems

Main Scientific Organizer: Nechitailo, Galina S.
Deputy Organizer: Kondyurin, Alexey

Room: EC1-212

F4.2-0001-24 15:00 - 15:15
Existence of functional substances related to their tolerance to space environments and survival strategies in a cyanobacterium, Nostoc sp. HK-01
Tomita-Yokotani, Kaori; Abe, Tomoko; Katoh, Hiroshi; Suzuki, Toshisada

F4.2-0002-24 15:15 - 15:30
Search for genes involved in the acquisition of space environment tolerance in the cyanobacterium Nostoc sp. HK-01
Katoh, Hiroshi; Tomita-Yokotani, Kaori; Abe, Tomoko; Suzuki, Toshisada

F4.2-0003-24 15:30 - 15:45
Impact of Endotoxins and Microgravity on Human Peripheral Blood Mononuclear Cells (PBMC), and the Therapeutic Potential of Asparagus extract ETAS
Mann, Vivek; Sundaresan, Alamelu

F4.2-0004-24 15:45 - 16:00
Past and future contribution of the Italian Space Agency to the understanding of the effects of spaceflight on human health
Di Fino, Luca; Perilli, Serena; Crisconio, Marino; Ferranti, Francesca; Mari, Silvia; Pacelli, Claudia; Parca, Luca; Pezzilli, Serena; Valentini, Giovanni; Mascetti, Gabriele; Esposito, Claudia; Negri, Barbara Team: Research Teams p. 457

F4.2-0005-24 16:00 - 16:15
Mapping the paths of human space exploration, a life science perspective
Pacelli, Claudia; Ferranti, Francesca; del Bianco, Marta; Vagelli, Valerio

F4.2-0006-24 16:15 - 16:30
SSPACE Astrobiology Payload - 3 (SAP-3)
A, Lokaveer; Hari, Priyadarshnam; Chand, Aryan; Mali, Soham Team: SSPACE Astrobiology Payload - 3 p. 458

Coffee Break

Room: EC1-212

F4.2-0007-24 17:00 - 17:15
Various molecular physiological effects of loss of physical contact in space on C. elegans.
Higashitani, Atsushi Team: International C. eleagans Research Team p. 452

F4.2-0008-24 17:15 - 17:30
SPACE SPERM – the importance of gravity in sperm navigation, fertilisation and early embryo formation.
Mcpherson, Nicole; Lyons, Hannah; Nikitaras, Victoria

F4.2-0009-24 17:30 - 17:45
30-DAY HYPERGRAVITY EXPOSURE (3.5, 5, AND 6.5G) HAS LITTLE EFFECT ON HISTOLOGY, MORPHOLOGY, AND GROWTH OF EARTHWORMS
Bouwman, Hindrik; van der Merwe, Cornel-Mari; Maboeta, Mark; Weldon, Che; Bezuidenhout, Carlos

F4.2-0010-24 17:45 - 18:00
WolfSat-1: A 1U CubeSat to Monitor Enzyme Activity of Ideonella sakaiensis in the Microgravity
Schauer, Jasmin; Castronovo, Alexander; Quinn, Colin; Kiesling, Paul; Kiesling, Dylan; Portas-Levy, Daniel; Simmons, Kevin; Mccalla-Bottorff, Karsten Team: Wolfpack CubeSat Development Team p. 461

F4.2-0011-24 18:00 - 18:15
Incremental increases in physiological fluid shear progressively alter pathogenic phenotypes and gene expression in multidrug resistant Salmonella
Yang, Jiseon; Barrila, Jennifer; Nauman, Eric; Nickerson, Cheryl A.; Ott, C. Mark

F4.2-0012-24 18:15 - 18:30
Biological experiments in orbital space flights: historical view and future demands
Kondyurin, Alexey; Nechitailo, Galina S.

Wed, Jul 17, 2024

F4.2 Influence of Spaceflight Environments on Biological Systems

Main Scientific Organizer: Nechitailo, Galina S.
Deputy Organizer: Kondyurin, Alexey

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

F4.3 Space Food and Nutrition

Main Scientific Organizer: Katayama, Naomi
Deputy Organizer: Kitaya, Yoshiaki

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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F5.1 Molecular, Cellular and Physiologica Changes to Spaceflight and Ground Studies

Main Scientific Organizer: Blaber, Elizabeth

Room: EC1-211

F5.1-0001-24 09:00 - 09:20
Spaceflight increases sarcoplasmic reticulum Ca2+ leak and this cannot be counteracted with BuOE treatment
Braun, Jessica; Fajardo, Val Andrew

F5.1-0002-24 09:20 - 09:40
Effects of spaceflight on mouse tail tissue: Findings from a 30-day mission with artificial gravity in orbit
Miyake, Masao; Ikunaga, Arisa; Tate, Kazuma; Kanda, Naoki; Hazama, Akihiro

F5.1-0003-24 09:40 - 10:00
Integrated Transcriptomic Analysis of Mouse Tissue during Spaceflight: A re-analysis of Mouse Habitat Unit-1 (MHU-1) Mission
Husna, Nailil; Muratani, Masafumi

F5.1-0004-24 10:00 - 10:20
Integrative multi-omic analysis of astronauts from NASA Twins, Inspiration4, Axiom-2, and Polaris Dawn missions
Kim, Jangkeun; Mason, Chris; Overbey, Eliah; Tierney, Braden; Meydan, Cem; Ryon, Krista; Najjar, Deena; Rosenberg, Marissa; Mateus, Jaime

Coffee Break

Room: EC1-211

F5.1-0005-24 11:00 - 11:20
The PROMETEO II experiment onboard the ISS
Valentini, Giovanni; Pezzilli, Serena; Ciofani, Gianni; Genchi, Giada; Carrubba, Elisa; Balsamo, Michele; Di Fino, Luca; Mascetti, Gabriele

F5.1-0006-24 11:20 - 11:40
A chemical experimental device for use on the Chinese space station
Kun, Ding; Zhang, Tao

F5.1-0007-24 11:40 - 12:00
Development of a small satellite platform based on the Return system for space biology and medical research
Kim, Kyunghee; Park, Chanhum; Lee, Ji Seung; Lee, Ok Joo; Nath, Sudarshini; Oh, Moon Sik; Kim, Ki Hyun

F5.1-0008-24 12:00 - 12:20
Progress in Space Medicine Research on China Space Station
Li, Yinghui; Liu, Zhaoxia; Qu, Lina

Lunch Break

Room: EC1-211

F5.1-0009-24 (WITHDRAWN) 15:00 - 15:20
Analysis of Gut microbiome in response to acute and chronic radiation exposure.
Park, Mineon Team: Laboratory of Biological Dosimetry, National Radiation Emergency Medical Center, Korea Institute of Radiological & Medical Sciences p. 453

F5.1-0010-24 (WITHDRAWN) 15:20 - 15:40
The butyric acid-producing strains regulated by Dragon's Blood protects colonic barrier under simulated microgravity via TLR-4/NF-B pathway
Li, Yujuan; Zhang, Hanwen; Liu, Huayan; Tian, Zhongqin

F5.1-0011-24 15:40 - 16:00
Positive mood-related gut microbiota in a long-term closed environment: a multiomics study based on the "Lunar Palace 365" experiment
Hao, Zikai; Liu, Hong

F5.1-0012-24 16:00 - 16:20
Gut Microbiota-derived Extracellular Vesicles Regulate Intestinal Epithelial Barrier Dysfunction Induced by Simulated Microgravity
Li, Yujuan; Tian, Zhongqin; Zhang, Hanwen

Coffee Break

Room: EC1-211

F5.1-0013-24 15:00 - 15:20
Re-flight of the Amyloid Aggregation experiment on board the International Space Station
Pacelli, Claudia; Pezzilli, Serena Team: Research team p. 457

F5.1-0014-24 15:20 - 15:40
The Changes of Circadian Genes in a Hibernation Array of Tamias Sibiricus
Yang, Chao Team: team p. 459

F5.1-0015-24 15:40 - 16:00
Effect of microgravity on mammalian embryo development evaluated at the International Space Station
Wakayama, Sayaka Team: Space Embryo Team p. 458

F5.1-0016-24 16:00 - 16:20
THE ROLE OF MICROGRAVITY IN REGULATING AQUAPORIN 4 CHANNELS RELATED TO ATRIAL REMODELING IN ATRIAL FIBRILLATION.
Park, Hyelim; Park, Bokyeong; Park, Hyewon; Park, Junbeom; Kim, Kyu-Sung

Wed, Jul 17, 2024

F5.2 Exploring the Space Exposome and Approaches for Assessing Spaceflight-Associated Human Health Risks

Main Scientific Organizer: Huff, Janice
Deputy Organizer: Laiakis, Evagelia; Werneth, Charles

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

G0.1 Gravitational Effects on Physico-Chemical Processes

Main Scientific Organizer: Porter, Jeff
Deputy Organizer: Yano, Taishi

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

G0.3 Influence of Free Space Environoment on the Behavior of Materials

Main Scientific Organizer: Kondyurin, Alexey
Deputy Organizer: Minow, Joseph

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

H0.2 Gravitation, Dark Energy and Matter

Main Scientific Organizer: Bertolami, Orfeu

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

H0.4 Gravitational Waves

Main Scientific Organizer: Vallisneri, Michele
Deputy Organizer: Armano, Michele

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

H0.5 Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics

Main Scientific Organizer: Peron, Roberto
Deputy Organizer: Müller, Jürgen

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

H0.6 Cold Atoms

Main Scientific Organizer: Herrmann, Sven

Room: EC1-216

H0.6-0001-24 15:00 - 15:20
Enhancing Gravity Measurement in Low Earth Orbit: Development of an Atomic Drag-Free Accelerometer for Microgravity
Kim, Saesun; Mehdi, Langlois; Chiow, Sheng-wey; Yu, Nan

H0.6-0002-24 15:20 - 15:40
Chip-scale confined cold-atom interferometer technology for fundamental physics in space
Garrido Alzar, Carlos L.

H0.6-0003-24 15:40 - 16:00
Entanglement dynamics of photon pairs and quantum memories in the gravitational field of the Earth
Laemmerzahl, Claus; Barzel, Roy; Gundogan, Mustafa; Krutzik, Markus

H0.6-0004-24 16:00 - 16:15
Ultra-high vacuum systems for ultra-cold atoms on microgravity platforms
Warner, Marvin; Grosse, Jens; Elsen, Michael; Czech, Mareen
Team: BECCAL-Team p. 448

H0.6-0005-24 16:15 - 16:30
Hardware design for hybrid inertial sensing based on atom interferometry
Knoop, Dennis; Kuschewski, Frederik; Khattiwiriyapinyo, Issaree; Herrmann, Sven; Braxmaier, Claus; Grosse, Jens

Wed, Jul 17, 2024

PCB.1 Capacity Building

Main Scientific Organizer: Gabriel, Carlos
Deputy Organizer: Mendez, Mariano

Chair: Mendez, Mariano
Room: EC1-317

PCB.1-0001-24 09:00 - 09:20
COSPAR Capacity Building activities
Gabriel, Carlos; Altamirano, Diego; Bilitza, Dieter; Damas, M. Chantale; Ferreira, A. Geraldo; Glover, Alexi; Mendez, Mariano; Nimit, Kumar; Perrone, Denise; Smith, Randall; Tshisaphungo, Mpho

PCB.1-0002-24 09:20 - 09:35
CAPACITY BUILDING ACTIVITIES DURING SPACE WEEK NORDESTE 2023 "SPACE SCIENCE AND TECHNOLOGIES FOR THE BENEFIT OF NATURE AND SOCIETY"
Ferreira, Antonio Geraldo

PCB.1-0003-24 09:35 - 09:50
Space science and Technology AwaReness Training Programme (START) a new initiative of ISRO
Kuttanpillai, Praveen Kumar; Das, Tirtha Pratim

PCB.1-0004-24 09:50 - 10:05
Space for enabling community climate resilience : A case of Karnataka
Venkataramaiah, Jagannatha

PCB.1-0005-24 10:05 - 10:20
Climate Resilience Water security : A Case of NACIN-P Campus, A.P India
Venkataramaiah, Jagannatha

Coffee Break

Chair: Gabriel, Carlos
Room: EC1-317

PCB.1-0006-24 11:00 - 11:20
Flight Capacity Building for International Partnerships
Baker, Daniel N.; Chandran, Amal

PCB.1-0007-24 11:20 - 11:35
Thailand's Roadmap for Capacity Building in Space Science and Technology: a Funding Agency Perspectives
Gerdsri, Nathasit; Somjaitaweeporn, Tunyawat; Nuntiyakul, Waraporn; Iewwongcharoen, Boonkiart; Sonsrettee, Wirin; Ngamkajornwiwat, Potiwat; Panyaphirawat, Thirasak; Chalarak, Nawarerk; Tansurat, Pawat

PCB.1-0008-24 11:35 - 11:50
Enhancing and Expanding Thailand's Capacity Building for Space Technology
Jenjob, Wissawa; Champangern, Khruewan; Pairat, Paripat

PCB.1-0009-24 11:50 - 12:05
An Affordable Satellite Educational Platform
Chaichuenchob, Chidchanok; Chusri, Sutee

PCB.1-0010-24 12:05 - 12:20
ITU REGULATORY PROCEDURES AND THE ITU-R HANDBOOK FOR SMALL SATELLITES
Loo, Chuen Chern; Wang, Xiuqi

Wed, Jul 17, 2024

PCB.2 Small Satellites for Capacity Building

Main Scientific Organizer: Gabriel, Carlos
Deputy Organizer: Chandran, Amal

CB with Small Sats 1

Chair: Chang, Loren
Room: EC1-317

PCB.2-0001-24 15:00 - 15:15
COSPAR CB with Small Satellites - a new programme
Gabriel, Carlos; Damas, M. Chantale

PCB.2-0002-24 15:15 - 15:30
The COSPAR-INSPIRE program for capacity building
Chandran, Amal; Gabriel, Carlos; Worms, Jean-Claude; Baker, Daniel N.; Chang, Loren

PCB.2-0003-24 15:30 - 15:45
Leveraging Smallsat Technology to Develop Synergies for Addressing the Global Challenge of Space Weather
Azeem, Irfan; Wang, Nai-Yu

PCB.2-0004-24 15:45 - 16:00
Educational Benefits of PocketQubes and CubeSats in a Pre-College Setting
Sato-Hua, Kenan; Khan, Zayan; Neville, Winston; Evrard Vescio, Elliott; Evrard Vescio, Tyler; Christenson, Shawna; Simmons, Kevin

PCB.2-0005-24 16:00 - 16:15
Technical Design of the first Thai Space Consortium Satellite (TSC-1) and its Polar Orbiting Ion Spectrometer Experiment (POISE) Payload
Chaiwongkhot, Kullapha; Puprasit, Kunlanan; Lakronwat, Jidapa; Amratisha, Koth; Ruffolo, David; Burom, Sunruthai; Khuanpet, Nipitchon; Meemak, Phongsakorn; Yamwong, Wittawat; Prabket, Jirawat; Banglieng, Chanoknan

PCB.2-0006-24 16:15 - 16:30
S-band Antenna Design: Enhancing Satellite Communication and Data Transmission
Belgacem, Wahiba; Bab, Amin

Coffee Break

CB with Small Sats 2

Chair: Gabriel, Carlos
Room: EC1-317

PCB.2-0007-24 17:00 - 17:15
Developing Hands On Space Education and Small Satellite Capacity Building at National Central University
Chang, Loren; Chao, Chi-Kuang; Liu, Jann-Yenq; Lin, Cissi; Yang, Ya-Hui

PCB.2-0008-24 17:15 - 17:30
Redefining STEM Education: Initiating and Developing a Pre-College Aerospace Team
Barron, Evan L; Simmons, Kevin

PCB.2-0009-24 17:30 - 17:45
Using Symmetric Encryption to Increase the Security of CubeSats
Greenwood, Christian; Griswold, Benjamin; Simmons, Kevin

PCB.2-0010-24 17:45 - 18:00
Tracking and Avoiding Space Debris Using CubeSats
Hoff, Erik A; Simmons, Kevin

PCB.2-0011-24 18:00 - 18:15
Optimizing Star Tracker Placement on Agile Satellites
Cheriet, Mohammed El Amine; Adnane, Akram; Benfriha, Elhassen; Ghaffour, Yassine; Roubache, Rima

PCB.2-0012-24 18:15 - 18:30
Effects of terrestrial interference signals in GNSS receiver on-board experimental platform in low earth orbit and mitigation techniques
Shankar Ot, Anand; Basim A, Mohammed; Vs, Biju; Vs, Vinoj; Ar, Rekha; Pillai C, Radhakrishna; Es, Padmakumar

Wed, Jul 17, 2024

PCB.2 Small Satellites for Capacity Building

Main Scientific Organizer: Gabriel, Carlos
Deputy Organizer: Chandran, Amal

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PE.1 Space Explorers in Schools - Empowering the Next Generation of Researchers

Main Scientific Organizer: Doran, Rosa
Deputy Organizer: Jeong, Haeim; Rojas, Gustavo

Room: National Science Museum

PE.1-0005-24 09:00 - 10:30
CanSat Session I - Mi-hye Son (BNSM)
Doran, Rosa

Coffee Break

Room: National Science Museum

PE.1-0006-24 11:00 - 12:30
CanSat Session II - Mi-hye Son (BNSM)
Doran, Rosa

Lunch Break

Room: National Science Museum

PE.1-0007-24 15:00 - 16:30
CanSat Session III - Mi-hye Son (BNSM)
Doran, Rosa

Coffee Break

Room: National Science Museum

PE.1-0008-24 17:00 - 18:30
CanSat Session IV - Mi-hye Son (BNSM)
Doran, Rosa

Wed, Jul 17, 2024

PE.2 Current Trends, Initiatives And Research In Education And Outreach For Space Sciences

Main Scientific Organizer: Rojas, Gustavo
Deputy Organizer: Benitez Herrera, Sandra

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PEDAS.1 A Sustainable Space Exploration: from the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments

Main Scientific Organizer: Frueh, Carolin
Deputy Organizer: Pardini, Carmen

Astrodynamics for SSA and end-of-life

Chair: Pardini, Carmen
Room: EC1-218

PEDAS.1-0019-24 11:00 - 11:15
Active space debris sequential removal of multiple targets
Kravchenko, Vadim; Ivanyukhin, Alexey

PEDAS.1-0020-24 11:15 - 11:30
Cislunar Space Situational Awareness and Key Regions
Frueh, Carolin; Black, Arly; Bhadauria, Surabhi

PEDAS.1-0021-24 11:30 - 12:00 (solicited)
A Percolation Theory of the Space Environment
Vasile, Massimiliano

PEDAS.1-0022-24 12:00 - 12:15
Debris Remediation and Repurposing Based on Passage Through Orbital Resonances
Rosengren, Aaron J.; Daquin, Jerome; Dell'elce, Lamberto

PEDAS.1-0023-24 (WITHDRAWN) 12:15 - 12:30
Orbital Debris and Secondary Satellites from Low Earth Orbit Space Stations
Minow, Joseph

Coffee Break

Technical challenges, collaboration, coordination for sustainability and zero debris

Chair: Demars, Kyle
Room: EC1-218

PEDAS.1-0024-24 15:00 - 15:15
Aspects of implementing ESA's Zero Debris Approach in spacecraft operations
Flohrer, Tim; Lemmens, Stijn; Letizia, Francesca; Soares, Tiago

PEDAS.1-0025-24 15:15 - 15:45 (solicited)
The NASA Orbital Debris Program Office - In Service of Space Safety
Ostrom, Chris

PEDAS.1-0026-24 15:45 - 16:00
Vulcan – Launch services for the next decade
Reed, John

PEDAS.1-0027-24 16:00 - 16:15
Spacefaring nations' efforts to mitigate space debris and protect the planetary environment
Nam, Giwon

PEDAS.1-0028-24 16:15 - 16:30
In-depth characterisation of a criticality metric
Böttcher, Lorenz; Silvestri, Simona

Wed, Jul 17, 2024

PEDAS.1 A Sustainable Space Exploration: from the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments

Main Scientific Organizer: Frueh, Carolin
Deputy Organizer: Pardini, Carmen

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PIR.1 Near-term Exploration of the Interstellar Medium,: Progress and Status

Main Scientific Organizer: Brandt, Pontus
Deputy Organizer: Provornikova, Elena

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PPP.2 Planetary Protection Mission Implementation and Status

Main Scientific Organizer: Sinibaldi, Silvio
Deputy Organizer: Groen, Frank

Room: EC1-214

PPP.2-0001-24 09:00 - 09:30 (solicited)

Functional Requirements and Updated Backward Planetary Protection Implementation Approaches for the Mars Sample Return Program
Clement, Brian; Burgin, Mariko; Cooper, Moogega; Cox, Z. Nagin; Dean, Zachary; Gershman, Robert; Guan, Lisa; Mikellides, Ioannis

PPP.2-0002-24 09:30 - 10:00 (solicited)

Mars Sample Return's Earth Return Orbiter planetary protection strategy and implementation status
Affentranger, Lorenz; Tournier, Thierry; Sinibaldi, Silvio; Haldemann, Albert; Hall, John; Bonnery, Guillaume; Englert, Cristian; Loureiro, Tiago; Sánchez Pérez, Jose Manuel

PPP.2-0003-24 10:00 - 10:15

Mars Sample Return Orbiting Sample as Primary Containment Vessel Backward Planetary Protection Design Considerations
Cooper, Moogega; Mikellides, Ioannis; Hoey, William; Hunker, Stephan; Stegman, Matthew; Caplan, Jeremy; Bouchard, Michael; Drymiotis, Fivos; Adell, Philippe; Burgin, Mariko; Webb, David

PPP.2-0004-24 10:15 - 10:30

3-D Ray-tracing Analyses and Design of the Mars Sample Return Orbiting Sample for Sterilization by Ultraviolet Radiation
Hoey, William; Mikellides, Ioannis; Hunker, Stephan; Drymiotis, Fivos; Burgin, Mariko; Cooper, Moogega; Stegman, Matthew; Webb, David

Coffee Break

Room: EC1-214

PPP.2-0005-24 11:00 - 11:15

Planetary protection trades and lessons learned from designing Mars Sample Return's Capture, Containment & Return System
Cataldo, Giuseppe; Ansdell, Megan; Sarli, Bruno; Gage, Peter; White, Todd; Feehan, Brendan; Pellerano, Fernando

PPP.2-0006-24 11:15 - 11:30

In-flight Sterilization Specification Development for Mars Sample Return Backward Planetary Protection
Guan, Lisa; Clement, Brian; Dean, Zachary; Blachowicz, Adriana

PPP.2-0007-24 11:30 - 11:45

Multidisciplinary Analyses of the Mars-to-Earth Particle Vectors in Support of Backward Planetary Protection for the Mars Sample Return Campaign
Mikellides, Ioannis; Burgin, Mariko; Hoey, William; Mennella, Jerami; Heinz, Nicholas; Wallace, Mark; Drymiotis, Fivos; Shallcross, Gregory; Cooper, Moogega; Clement, Brian

PPP.2-0008-24 11:45 - 12:00

Sample Retrieval Lander Forward Planetary Protection Compliance Status
Chen, Fei; Stott, Kristina; Hizer, Akemi; Newlin, Laura

PPP.2-0009-24 12:00 - 12:15

Mars Sample Return - Planetary protection implementation strategy for the ESA Sample Transfer Arm
Sinibaldi, Silvio; Ortega Ugalde, Sandra; Villa, Francesco; Basile, Mario; Wormnes, Kjetil; Prezelus, Sylvain; Poulakis, Pantelis

PPP.2-0010-24 12:15 - 12:30

Mars Express end-of-life collision analysis
Martens, Waldemar; Letizia, Francesca; Khan, Michael

Lunch Break

Room: EC1-214

PPP.2-0011-24 15:00 - 15:20

PLANETARY PROTECTION COMPLIANCE OF NASA MISSIONS PAST, PRESENT AND FUTURE
Benardini, James; Seasly, Elaine; Spry, J. Andy; Baker, Amy

PPP.2-0012-24 15:20 - 15:40

ExoMars Planetary Protection implementation and current status
Margheritis, Diana Beatriz; Nisticò, Enrico Andrea; Sinibaldi, Silvio

PPP.2-0013-24 15:40 - 16:00

Planetary Protection Status Report in the Outbound Cruising Phase of Hayabusa-2# and New Insights of Carbonaceous Asteroids through Ryugu Sample Analyses
Yano, Hajime; Mimasu, Yuya; Yoshikawa, Makoto; Tsuda, Yuichi Team: Hayabusa-2# Project Team p. 451

PPP.2-0014-24 16:00 - 16:30

Q/A and discussion on Planetary Protection issues
Coustenis, Athena; Groen, Frank; Sinibaldi, Silvio

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PPP.2 Planetary Protection Mission Implementation and Status

Main Scientific Organizer: Sinibaldi, Silvio
Deputy Organizer: Groen, Frank

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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PPP.3 Planetary Protection Research and Development

Main Scientific Organizer: Doran, Peter
Deputy Organizer: Olsson-francis, Karen

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PRBEM.1 Standards and Tools for Radiation Measurements and Supporting Data

Main Scientific Organizer: O'brien, Paul
Deputy Organizer: Heynderickx, Daniel

Presentations and Discussions

Chair: O'brien, Paul
Room: CON-201

PRBEM.1-0001-24 15:00 - 15:15
On the Angular Deconvolution of Directional Space Radiation Measurements
Olifer, Leonid; Mann, Ian; Turner, Drew; Fedosejevs, Robert; Ozeke, Louis

PRBEM.1-0002-24 15:15 - 15:30
PRBEM sensor response format & response function library
O'brien, Paul

PRBEM.1-0003-24 15:30 - 15:50
The International Radiation Belt Environment Modeling (IRBEM) library
Brunet, Antoine; Shumko, Mykhaylo Team: IRBEM development team p. 452

PRBEM.1-0004-24 15:50 - 16:10
Review on PRBEM Data Analysis Procedure
Nagatsuma, Tsutomu

PRBEM.1-0005-24 16:10 - 16:30
Discussion - GSICS International Collaborative Effort
Nagatsuma, Tsutomu

Coffee Break

Room: CON-201

PRBEM.1-0006-24 17:00 - 17:30
Discussion - Part 1: Development of an international standard for radiation belt specification and modeling
Shprits, Yuri

PRBEM.1-0007-24 17:30 - 18:00
Discussion - Part 2: Development of an international standard for radiation belt specification and modeling
Shprits, Yuri

PRBEM.1-0008-24 18:00 - 18:30
Discussion - Part 3: Development of an international standard for radiation belt specification and modeling
Shprits, Yuri

Wed, Jul 17, 2024

PRBEM.2 Radiation Environment across the Solar System: Observations, Measurements, and Models for Current and Future Space Missions

Main Scientific Organizer: Miyoshi, Yoshizumi
Deputy Organizer: Hwang, Junga; Kim, Wousik

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation

Main Scientific Organizer: Fuke, Hideyuki
Deputy Organizer: Dubourg, Vincent

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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PSD.1 Satellite Dynamics: New Developments and Challenges for Earth and Solar System Sciences

Main Scientific Organizer: Peter, Heike
Deputy Organizer: Topputo, Francesco

Global navigation satellite system applications

Room: EC1-217

PSD.1-0001-24 09:00 - 09:30 (solicited)
IGS – 30 years in service for science and society
Dach, Rolf; Craddock, Allison; Bradke, Markus; D'anastasio, Elisabetta; Herring, Thomas; Martire, Leo; Ruddick, Ryan

PSD.1-0002-24 09:30 - 09:45
G4S_2.0 dynamic model for the Galileo FOC spacecraft
Sapio, Feliciana; Lefevre, Carlo; Visco, Massimo; Lucchesi, David; Cinelli, Marco; Di Marco, Alessandro; Fiorenza, Emiliano; Loffredo, Pasqualino; Lucente, Marco; Magnafico, Carmelo; Peron, Roberto; Santoli, Francesco; Vespe, Francesco

PSD.1-0003-24 09:45 - 10:00
Galileo High Accuracy Service and other public real-time precise GNSS correction products: A real-time PPP assessment over Canadian stations
Ghoddousi-Fard, Reza

PSD.1-0004-24 10:00 - 10:15
Bernese GNSS Software activities for Fundamental Physics applications within the Galileo for Science Project
Cinelli, Marco; Sapio, Feliciana; Peron, Roberto; Lucente, Marco; Magnafico, Carmelo; Lucchesi, David; Visco, Massimo; Di Marco, Alessandro; Fiorenza, Emliano; Lefevre, Carlo; Loffredo, Pasqualino; Santoli, Francesco; Vespe, Francesco

PSD.1-0005-24 10:15 - 10:30
Combined Earth Rotation Parameters and its impact on GNSS satellite orbits
Flohrer, Claudia; Klemm, Lisa; Thaller, Daniela; Dach, Rolf; Schaer, Stefan

Coffee Break

GNSS and other space geodetic technique applications

Room: EC1-217

PSD.1-0006-24 11:00 - 11:20 (solicited)
Development of KPS and KASS : programs to provide PNT services in Korea
Park, Sujin

PSD.1-0007-24 11:20 - 11:35
GENESIS contribution to global geodetic parameters and precise orbit determination of Galileo
Sośnica, Krzysztof; Kur, Tomasz

PSD.1-0008-24 11:35 - 11:50
GENESIS orbit and geodetic parameter estimation based on GNSS: Impact of non-gravitational force model deficiencies
Arnold, Daniel; Jäggi, Adrian; Miller, Alexandra; Kobel, Cyril; Montenbruck, Oliver; Steigenberger, Peter

PSD.1-0009-24 11:50 - 12:05
Updating the JPL Terrestrial Reference Frame
Gross, Richard

PSD.1-0010-24 12:05 - 12:20
Methods for SLR Normal Point Generation and their Effect on the Parameter Estimation
Geisser, Linda; Susnik, Andreja; Rodriguez, José; Otsubo, Toshimichi; Meyer, Ulrich; Arnold, Daniel; Jäggi, Adrian

Lunch Break

Precise orbit determination and applications

Room: EC1-217

PSD.1-0011-24 15:00 - 15:20 (solicited)
Mass-change And Geosciences International Constellation (MAGIC) - Summary of Phase A science activities
Visser, Pieter N.A.M.; Pail, Roland; Flechtner, Frank; Bruinsma, Sean; Daras, Ilias

PSD.1-0012-24 15:20 - 15:35
Joint GRACE Follow-On orbit and gravity field determination from GPS carrier phase observations
Lasser, Martin; Meyer, Ulrich; Arnold, Daniel; Jäggi, Adrian

PSD.1-0013-24 15:35 - 15:50
High precision physical modelling of non-gravitational forces acting on spacecraft for gravity field determination and beyond
Rievers, Benny; Woeske, Florian; Huckfeldt, Moritz; Fumenti, Federico

PSD.1-0014-24 15:50 - 16:05
Copernicus POD service: status of Copernicus sentinel satellite orbit determination
Fernández Martín, Carlos; Peter, Heike; Fernández, Marc; Fernández Sánchez, Jaime; Féménias, Pierre; Nogueira Loddo, Carolina

PSD.1-0015-24 16:05 - 16:20
An Evaluation of Physics-Based Force Model Performance in LEO: Implications for Next-Generation Space Traffic Management
Constant, Charles; Hanson, Benjamin; Brownhall, Indigo; Bhattarai, Santosh; Ziebart, Marek

Wed, Jul 17, 2024

PSD.1 Satellite Dynamics: New Developments and Challenges for Earth and Solar System Sciences

Main Scientific Organizer: Peter, Heike
Deputy Organizer: Topputo, Francesco

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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PSD.2 Precision Orbit and Attitude Determination of Small Satellites, CubeSats, and Constellation and their Scientific Applications

Main Scientific Organizer: Han, Shin-Chan
Deputy Organizer: Jäggi, Adrian

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PSSH.1 The Challenges of Space Activities from the Perspective of Human and Social Sciences

Main Scientific Organizer: Sourbès-Verger, Isabelle
Deputy Organizer: Hedman, Niklas; Worms, Jean-Claude

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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PSW.3 Preparation for a New Ionospheric Space Weather Scale for Trans-ionospheric Radio wave Propagation

Main Scientific Organizer: Jakowski, Norbert
Deputy Organizer: Fuller-Rowell, Tim

Room: EC1-314

PSW.3-0010-24 11:00 - 11:15
Progress on the need for an ionospheric T-scale targeting trans-ionospheric radio wave users
Fuller-Rowell, Tim; Fuller-Rowell, Dominic; Durgonics, Tibor; Jakowski, Norbert; Carrano, Charles; Steenburgh, Robert; Glover, Alexi

PSW.3-0011-24 11:15 - 11:45 (solicited)
Design of the scale and path forward
Jakowski, Norbert; Fuller-Rowell, Tim

PSW.3-0012-24 11:45 - 12:15 (solicited)
Review of available real-time observations
Jakowski, Norbert

Wed, Jul 17, 2024

PSW.4 Information Architecture and Innovative Solutions in Space Weather. Interfacing and Coordination between Different Efforts on Standardization

Main Scientific Organizer: Masson, Arnaud
Deputy Organizer: Fung, Shing; Kalegaev, Vladimir

Room: EC1-314

PSW.4-0001-24 15:00 - 15:30 (solicited)
AI/ML as a tool for space weather research and forecasting
Camporeale, Enrico

PSW.4-0002-24 15:30 - 15:45
Recent enhancements to the Heliophysics Event Knowledgebase supporting the space weather information infrastructure
Hurlburt, Neal; Timmons, Ryan; Cheng, Justin; Petrinec, Steven

PSW.4-0003-24 15:45 - 16:00
PyHC and its Continued Contributions to the Heliophysics and Space Weather Communities' Information Architecture
Barnum, Julie; Polson, Shawn

PSW.4-0004-24 16:00 - 16:15
ESA DataLabs: an open science platform relevant to Heliophysics
Reerink, Jan; Masson, Arnaud

PSW.4-0005-24 16:15 - 16:30
HelioCloud as a Replicable Open Science Architecture
Antunes, Alex; Thomas, Brian; Lenzi, Nicholas; Vandegriff, Jon; Ringuette, Rebecca

Coffee Break

Room: EC1-314

PSW.4-0006-24 17:00 - 17:20 (solicited)
Presenting the Virtual Space Weather Modelling Centre
Verbeke, Christine; Isavnin, Alexey; Poedts, Stefaan; Mays, M. Leila; Petrenko, Maksym; Wiegand, Chiu Team: VSWMC-M&E and P3 team p. 461

PSW.4-0007-24 17:20 - 17:40 (solicited)

Advancing open use of models and simulation results in heliophysics and space weather
Kuznetsova, Maria Team: Community Coordinated Modeling Center 2024 p. 449

PSW.4-0008-24 17:40 - 17:55

Open Science Practices and Infrastructure at CCMC
Wang, Jack; Kuznetsova, Maria; Tsui, Tina; Lesko, Matthew; Barrous, Damian; Manessis, Polymnia; Scheiber, Karen; Russell, Edgar; Bakshi, Sarabjit; Mullinix, Richard; Wiegand, Chiu; Chou, Min-Yang; Yue, Jia Team: Community Coordinated Modeling Center p. 449

PSW.4-0009-24 17:55 - 18:10

Space Physics Data Facility as an Information Architecture for Space Weather
Jian, Lan; Candey, Robert; Kovalick, Tamara

PSW.4-0010-24 18:10 - 18:25

The Heliophysics Digital Observatory (HDO): A Service for Supporting Cross-Disciplinary Heliophysics Research Community
Fung, Shing; Connor, Hyunju; Jian, Lan; Liu, Guiping; Dolan, Chuck; Garcia, Leonard

Wed, Jul 17, 2024

PSW.6 Improving Predictive Capabilities of Radiation Environment in Support of Human Exploration and Robotic Missions

Main Scientific Organizer: Whitman, Kathryn
Deputy Organizer: Jun, Insoo

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PSW.7 International Space Weather Cooperation

Main Scientific Organizer: Yoon, Kichang
Deputy Organizer: Ishii, Mamoru

Room: EC1-315

PSW.7-0001-24 09:00 - 09:15

International Space Weather Initiative: The Way Forward
Gadimova, Sharafat; Gadimova, Sharafat; Amory, Christine

PSW.7-0002-24 09:15 - 09:30

Geoelectromagnetic opportunities for international, interagency, and interdisciplinary cooperation
Love, Jeffrey; Lewis, Kristen; Kelbert, Anna; Rigler, E. Joshua; Bedrosian, Paul; Ringler, Adam T.

PSW.7-0003-24 (WITHDRAWN) 09:30 - 09:45

Establishing a real-time space weather research downlink network for the NASA/IMAP mission in collaboration with international partners
Posner, Arik; Goldemen, Elizabeth; Williams, Bradley; Bussey, George; Janches, Diego

PSW.7-0004-24 09:45 - 10:00

Compact Ionospheric Probe on CubeSat Constellation for Space Weather Missions
Chao, Chi-Kuang

PSW.7-0005-24 10:00 - 10:15

Recent Space Weather Activities of Regional Warning Center China of ISES
Luo, Bingxian

PSW.7-0006-24 10:15 - 10:30

SCOSTEP's contribution to the cooperation of international space weather
Shiokawa, Kazuo

Coffee Break

Room: EC1-315

PSW.7-0007-24 11:00 - 11:15

Reinventing Space Weather with Artificial Intelligence
Camporeale, Enrico; Berger, Thomas

PSW.7-0008-24 11:15 - 11:30

Recent Activities of International Space Environment Services [U+FF08]ISES)
Ishii, Mamoru; Dasso, Sergio

PSW.7-0009-24 11:30 - 11:45

Integrative Approaches to Advance Space Weather Capability
Talaat, Elsayed

PSW.7-0010-24 11:45 - 12:00

International Collaboration on Development of Space Weather Operation in Taiwan
Lee, I-Te

PSW.7-0011-24 12:00 - 12:15

On the Latin America effort for fostering the International Space Weather Cooperation: locally and globally
Denardini, Clezio Marcos; Gulisano, Adriana Maria; Meza, Amalia; Scipión, Danny E.; Costa, Joaquim; Valdivia, Juan Alejandro; Gonzalez-Esparza, Americo; Milla, Marco; Molina, Maria Graciela; Natali, Maria Paula; Dasso, Sergio

PSW.7-0012-24 12:15 - 12:30

International Agency Space Weather Research and Mission Coordination Forum
Spann, James

Lunch Break

Room: EC1-315

PSW.7-0013-24 17:00 - 17:15
Contributions of the World Meteorological Organization to International Collaboration on Space Weather
Andries, Jesse

PSW.7-0014-24 17:15 - 17:30
The Space Weather Operational Readiness Development (SWORD) Center - an international focal point for orbital space weather forecasting research
Berger, Thomas; Pulkkinen, Tuija; Gombosi, Tamas; Baker, Dan Team: The SWORD Center of Excellence Co-Is and Collaborators p. 460

PSW.7-0015-24 17:30 - 17:45
Space weather cooperation in the context of ground based (observational) data
Bhattacharya, Shreya; Lefevre, Laure Team: SIDC team p. 457

PSW.7-0016-24 17:45 - 18:00
The Need for Improved Ground-Based Coordination for Space-Weather Purposes with a Focus on Heliospheric Remote-Sensing Capabilities Using Radio Techniques
Bisi, Mario M.; Jackson, Bernard; Gibson, Sarah; Hapgood, Mike; Fallows, Richard; Iwai, Kazumasa; Tokumaru, Munetoshi; Forte, Biagio; Zucca, Pietro; Kuznetsova, Maria

PSW.7-0017-24 18:00 - 18:15
The International Meridian Circle Program: Addressing the Challenges of Space Weather and Space Climate via International Collaboration
Blanc, Michel; Wang, Chi; Liu, William; Shen, Xuhui; Wu, Jian; Zhang, Shunrong; Denardini, Clezio Marcos; Amory, Christine; Rabiu, Babatunde; Bounhir, Aziza

PSW.7-0018-24 18:15 - 18:30
Global Collaboration in Space Weather Research: Insights from Thailand's Experience
Channumsin, Sittiporn; Bumrungkit, Acharaporn; Kaewthongrach, Rungnapa; Panup, Wanida; Sutthana, Jaruwan; Puttasuwa, Keerati; Saingyen, Phasawee

Coffee Break

Room: EC1-315

PSW.7-0019-24 09:00 - 09:15
Space Weather Related International Cooperation, an Aeromedical Researcher's Perspective
Copeland, Kyle

PSW.7-0020-24 09:15 - 09:30
Towards an Ideal Space Weather Service Network: Comparative Analysis and Best Practices
de Patoul, Judith Team: SIDC/STCE - Space Weather Operations Center - Royal Observatory of Belgium p. 457

PSW.7-0021-24 09:30 - 09:45
Global Cooperation in Space Weather: ISWI Perspective
Gopalswamy, Nat

PSW.7-0022-24 09:45 - 10:00
The international need for ground-based and spacecraft space weather heliospheric remote sensing cooperation
Jackson, Bernard; Bisi, Mario M.; Iwai, Kazumasa; Tokumaru, Munetoshi

PSW.7-0023-24 10:00 - 10:15
Pathways to international coordination in space weather
Kuznetsova, Maria; Andries, Jesse; Opgenoorth, Hermann; Ishii, Mamoru; Bingham, Suzy; Kauristie, Kirsti; Dasso, Sergio; Mann, Ian Team: International Space Weather Action Teams Moderators p. 452

PSW.7-0024-24 10:15 - 10:30
International cooperation in Space Weather activities by European Space Agency
Luntama, Juha-Pekka; Glover, Alexi

Wed, Jul 17, 2024

PSW.8 The Geomagnetic Environment Leading to GIC Impacts on Power-infrastructure

Main Scientific Organizer: Opgenoorth, Hermann
Deputy Organizer: Gannon, Jennifer

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

PSW.10 Radio Observations for Space Weather

Main Scientific Organizer: Bisi, Mario M.

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

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Wed, Jul 17, 2024

TGCSS.1 Small Spacecraft - Big Science

Main Scientific Organizer: Baker, Daniel N.
Deputy Organizer: Chandran, Amal

Poster Program

Author in Attendance: Wednesday, 17:00 - 18:30, Poster area: EC1-Hall 1

See page 294

Wed, Jul 17, 2024

IR.1 Engaging Global Space Industry Stakeholders

Main Scientific Organizer: Snitch, Mary
Deputy Organizer: Gold, Michael; Reed, John; Roy, Aura

Achieving Escape Velocity from Red Tape Space Law and Policy in the Final Frontier

Chair: Gold, Michael
Room: CON-203

IR.1-0001-24 15:00 - 16:30 (solicited)
Achieving Escape Velocity from Red Tape: Space Law and Policy in the Final Frontier
Snitch, Mary; Roy, Aura

Coffee Break

Cosmic Clean-up: Global Solutions for Orbital Debris

Chair: Gold, Michael
Room: CON-203

IR.1-0002-24 17:00 - 18:30 (solicited)
Cosmic Clean-up: Global Solutions for Orbital Debris
Snitch, Mary; Roy, Aura

Thu, Jul 18, 2024

A0.1 What Are the Remaining Scientific Challenges above Equatorial Regions? How Small Satellites Could Fill the Knowledge Gap

Main Scientific Organizer: Lansard, Erick
Deputy Organizer: Benveniste, Jérôme

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

A0.1-0017-24 (WITHDRAWN)
Small-satellite capabilities at IIST, past mission, experience gained and future missions
Hari, Priyadarshnam Team: SSPACE p. 458

TWT-002 A0.1-0018-24
Evaluation of ERA5 datasets on atmospheric convection with Radiosonde observation over east coast of India.
Ojha, Piyush; Kumar, Krishan

TWT-003 A0.1-0019-24
Seasonal relationship between WWLLN lightning, ERA5 CAPE, and CP over north-west India
Tyagi, Swati; Srivastava, Arun Kumar

A0.1-0020-24 (WITHDRAWN)
Equatorial Atmosphere-Ionosphere Coupling : Addressing Important Gap Areas Through Experiments on Small Satellites
Pant, Tarun Kumar

Thu, Jul 18, 2024

A0.2 Land-Ocean-Atmosphere interactions

Main Scientific Organizer: Fournier, Severine
Deputy Organizer: Benveniste, Jérôme

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-004 A0.2-0020-24
SAR, SARin, RDSAR and FF-SAR Altimetry Processing on Demand for Cryosat-2, Sentinel-3 and Sentinel-6 at ESA's Altimetry Virtual Lab
Restano, Marco; Benveniste, Jérôme; Dinardo, Salvatore; Buchhaupt, Christopher; Scagliola, Michele; Passaro, Marcello; Fenoglio, Luciana; Ambrózio, Américo; Orru, Carla

TWT-005 A0.2-0021-24
Estimation of chlorophyll a concentration using Landat-8/OLI and Landsat-9/OLI-2 data in Hiroshima Bay
Oguro, Yoshinari; Konishi, Tomohisa; Ito, Seiji

TWT-006 A0.2-0022-24
An analysis of the Tropical Cyclones and Atlantic Hurricanes during 1979 to 2018 with the variation of Sunspot number and the influence of solar flux F10.7 and other solar activities
Banerjee, Dhruba

Thu, Jul 18, 2024

A0.4 Earth observations for Disaster Mitigation

Main Scientific Organizer: Vannan, Suresh
Deputy Organizer: Kasai, Yasuko

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-007 A0.4-0018-24
Estimation of Water Resources over South Korea Using GPM, SWOT, Sentinel-1 Satellite Systems
Lee, Seongjun; Kim, Hyunglok

TWT-008 A0.4-0019-24
Measuring landslides around Ravangala Sikkim, India and establishing contextual relationship with its causative factors
Singh, Saurabh; Raju, Ashwani

TWT-009 A0.4-0020-24
Subsidence in Eastern Gangatic plain region: A qualitative study on correlation parameters.
Kannojiya, Praveen; Raju, Ashwani

TWT-010 A0.4-0021-24
Projection of thermal bioclimate conditions over West Bengal, India in response to global warming based on climate model
Bal, Sourabh; Kirchner, Ingo

TWT-011 A0.4-0022-24
Multi-Satellite Application for Marine Disaster Management around the Korean Peninsula
Kim, Taeho

TWT-012 A0.4-0023-24
Generation of Typical Meteorological Years for Saudi Arabia for Solar Energy Applications (GenTMY-SA)
Farahat, Ashraf; D. Kambezidis, Harry

TWT-013 A0.4-0024-24
Earth Observation and Artificial Intelligence: Ethical Considerations for Practitioners and Policy Makers
Mao, Yiwei

TWT-014 A0.4-0025-24
Developing Spatially and Temporally Continuous Error Maps for Satellite-Based Soil Moisture Data Using Deep Learning Approaches to Enhance Numerical Weather Prediction
Kim, Subin; Kim, Hyunglok

TWT-015 A0.4-0026-24
A Comparison of Sentinel-1 and ALOS-2 to Study the Relationship between Coherence and Building Damage Rates in the Kumamoto Earthquake
Nonaka, Takashi; Asaka, Tomohito

A0.4-0027-24 (WITHDRAWN)
The development and future of China Remote Sensing Satellite Ground Station
Tian, Miaomiao; Huang, Peng; Wei, Hongwei

TWT-016 A0.4-0028-24
Using Nighttime Lights Data to Assess the Resumption of Religious and Socioeconomic Activities Post-COVID-19
Alahmadi, Mohammed

TWT-017 A0.4-0029-24
Assessing the Contribution of Hydrological Factors for Groundwater Dynamics in East Asia using Reanalysis and Satellite Observation with Explainable Machine Learning Methods
Park, Kunhee; Kim, Hyunglok

TWT-018 A0.4-0030-24
The Effective Monitoring System on Satellite Image Distribution
Lee, Myung-Jun; Jeon, Gap-Ho; Lee, Myeong-Shin

Thu, Jul 18, 2024

A0.5 Synergy of Multiple Satellites to Achieve Carbon Neutrality across the Globe

Main Scientific Organizer: Hyon, Jason
Deputy Organizer: Jeong, Sujong

Carbon Observation From Space

Chair: Hyon, Jason
Room: EC1-316

A0.5-0001-24 11:00 - 11:20 (solicited)
Use of GOSAT lower troposphere partial column CO2 and multi-platform NO2 data for estimating CO2 emissions from global megacities
Kuze, Akihiko; Kikuchi, Nobuhiro; Suto, Hiroshi; Shiomi, Kei

A0.5-0002-24 11:20 - 11:40 (solicited)
Monitoring the "Health" of Global Carbon Cycle with NASA's Orbiting Carbon Observatory missions
Liu, Junjie; Payne, Vivienne; Chatterjee, Abhishek Team: OCO-2/3 Science Team p. 455

A0.5-0003-24 11:40 - 11:55
Spaced-based analysis of urban enhancements of CO2 and air quality using multiple satellites
Park, Hayoung; Jeong, Sujong

A0.5-0004-24 11:55 - 12:10

Global mapping of XCO2 from OCO-2 and TROPOMI satellite measurements based on machine learning techniques: The new way to generate XCO2 data from incomplete sampling
Lee, Jonghyuk; Jeong, Sujong; Hong, Jaemin; Lee, Yu-Ri; Park, Hayoung; Kim, Jueun; Kim, Sowon

A0.5-0005-24 12:10 - 12:25

Preliminary study on CO2 monitoring hyperspectral spectrometer onboard Korean micro satellites in future
Park, Sung-Joon; Choi, Haklim; Song, Hwan-Jin; Moon, Bongkon; Lee, Jaejin; Kim, Yoonjae; Kim, Jiyoung; Lee, Byung-Il; Kim, Sehwan

Coffee Break

Carbon Mitigation
Chair: Jeong, Sujong
Room: EC1-316

A0.5-0006-24 15:00 - 15:20 (solicited)

Observing the global carbon cycle to manage a Post-Paris world
Schimel, David; Carroll, Dustin

A0.5-0007-24 15:20 - 15:40 (solicited)

TANSO-3 onboard GOSAT-GW and Its Contributions to Climate Change Mitigation Policies
Matsunaga, Tsuneo; Tanimoto, Hiroshi; Yashiro, Hisashi; Saeki, Tazu; Sugita, Takafumi; Someya, Yu; Fujinawa, Tamaki; Ohyama, Hirofumi; Inomata, Satoshi; Mueller, Astrid

A0.5-0008-24 15:40 - 15:55

Mission Analysis for NarSha Project
Park, Jae-Pil; Jeong, Sujong; Choi, Young-Jun; Kim, Geuk-Nam; Shin, Jinyoung; Lee, Seongwhan; Lee, Jung-Kyu; Lee, Kwangwon; Chang, Dong Yeong; Hong, Jaemin; Lee, Yu-Ri; Park, Hayoung

A0.5-0009-24 (WITHDRAWN) 15:55 - 16:10

Introduction of the COllaborative Carbon Column Observing Network COCCON: Showcasing its capabilities for GHG emission estimations, long term monitoring and satellite validation
Frey, Matthias Max; Morino, Isamu; Ohyama, Hirofumi; Hori, Akihiro; Hase, Frank; Dubravica, Darko; Alberti, Carlos

Thu, Jul 18, 2024

A0.6 The Connections between Earth's Lower and Upper Atmosphere

Main Scientific Organizer: Kahn, Ralph
Deputy Organizer: Yau, Andrew W.

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-020 A0.6-0007-24

Second variant of the construction of the space geodetic network of Mexico supported by a VLBI "Sierra Negra, Pue, Mex - Mount Lemon AZ, USA"
Mendoza-Araiza, Daniel

TWT-021 A0.6-0008-24

China's Space Environment Ground-based Monitoring System - the Chinese Meridian Project (CMP)
Xu, Jiyao

Thu, Jul 18, 2024

A1.1 Space-based and sub-orbital observations of atmospheric physics and chemistry: Critical Information on the Health of our Planet

Main Scientific Organizer: Kasai, Yasuko
Deputy Organizer: Walker, Kaley

Focus on Water Vapour and Aerosols

Chair: Kasai, Yasuko
Room: EC1-316

A1.1-0020-24 09:00 - 09:20

The plan of the small satellite observation mission for ice clouds and water vapor at the middle/upper troposphere and lower stratosphere
Eguchi, Nawo Team: High-frequency observations of water vapor, isotope, ice clouds and radiation budget by small satellite constellation Team (T1) AND TeraHertz ice cloud/water vapor micro satellite mission Team (T2) p. 452

A1.1-0021-24 09:20 - 09:40 (solicited)

The High-altitude Aerosols, Water vapour and Clouds (HAWC) mission: A Canadian contribution to NASA Atmosphere Observing System
Bourassa, Adam; Degenstein, Doug; Rieger, Landon; Blanchet, Jean-Pierre; Walker, Kaley; Langille, Jeffery; Blanchard, Yann

A1.1-0022-24 09:40 - 09:55

GNSS Integrated Tomography (INTOMO) next step in Radio Occultation application - severe weather case
Cegła, Adam; Hordyniec, Pawel; Moeller, Gregor; Rohm, Witold

A1.1-0023-24 09:55 - 10:10

Estimation of PM2.5 in Busan using Random Forest Method and GOCI AOD by Two Spatial Resolutions
Lee, Juhee; Cho, Yeseul; Koo, Ja-Ho

A1.1-0024-24 10:10 - 10:30

Developing Aerosol Constraints for Climate & Air Quality Modeling Applications from Multi-angle, Multi-spectral Satellite Remote Sensing
Kahn, Ralph; Junghenn Noyes, Katherine; Flower, Verity Jb; Limbacher, James; Petrenko, Mariya; Chin, Mian

Thu, Jul 18, 2024

A1.1 Space-based and sub-orbital observations of atmospheric physics and chemistry: Critical Information on the Health of our Planet

Main Scientific Organizer: Kasai, Yasuko
Deputy Organizer: Walker, Kaley

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-022 A1.1-0025-24
First O3 observations from GOSAT-2: the retrieval of O3 profile using thermal-IR band of TANSO-FTS-2 over Kanto region
Li, Arthur Ho Wang; Imasu, Ryoichi

TWT-023 A1.1-0026-24
Simulation of GNSS LEO satellites constellation for 3D water vapor monitoring
Rohm, Witold; Cegła, Adam; Makuch, Sebastian; Sośnica, Krzysztof; Hordyniec, Pawel; Moeller, Gregor; Adavi, Zohreh; Hanna, Natalia

TWT-024 A1.1-0027-24
Methane emissions in the Metropolitan Region of São Paulo: a study based on satellite data.
Da Silva Andrade, Izabel; Pelligrinetti Mendes, Alex Carlos; Andrade, Maria de Fátima; Varon, Daniel J.; Landulfo, Eduardo

A1.1-0028-24 (WITHDRAWN)
Shortwave Flux Retrievals from Himawari-8 AHI observations
Kim, Hye-Yun; Laszlo, Istvan; Liu, Hongqing

Thu, Jul 18, 2024

A2.1 Science and Applications Enabled by Satellite Missions for Global Ocean, Inland Seas, and Cryosphere

Main Scientific Organizer: Vignudelli, Stefano
Deputy Organizer: Fournier, Severine

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-026 A2.1-0033-24
Analysis of the oceanic interaction in the El Niño monitoring areas on the basis of satellite data
Lee, Seongsuk; Yi, Yu

A2.1-0034-24 (WITHDRAWN)
Automated Generation of Inland Water Elevation Changes from Satellite Radar Altimetry
Lee, Hyongki; Maslennikova, Natalya; Rostami, Amirhossein; Chang, Chi-Hung; Milillo, Pietro

TWT-027 A2.1-0035-24
PREDICTIONS OF THE ONSET OF MINI ICE AGE IN THE 25TH SOLAR CYCLE
Kumar, Rajiv

A2.1-0036-24 (WITHDRAWN)
TRITON satellite mission for ocean surface wind speed observation
Yeh, Wen-Hao; Tsai, Yung-Fu; Lin, Chen-Tsung

A2.1-0037-24 (WITHDRAWN)
The potential of the Orbiting Carbon Observatory-2 column CO2 measurements to constrain air-sea CO2 fluxes
Yun, Jeongmin; Liu, Junjie; Bowman, Kevin; Resplandy, Laure

Thu, Jul 18, 2024

A3.1 New Technology in Earth Observation and Applications for Sustainable Land Ecosystem

Main Scientific Organizer: Muramatsu, Kanako
Deputy Organizer: Guo, Linghua

Monitoring for hydrologic cycle and vegetation.

Chair: Muramatsu, Kanako
Room: EC1-317

A3.1-0001-24 09:00 - 09:15
Estimating Reservoir Water Volume Variations Using a Combination of Satellite Altimetry and Optical Dataset
Raza, Muhammad Maisam

A3.1-0002-24 09:15 - 09:30
Rainfall dynamics in the northwestern Indian Himalaya: Insights from a 40-year analysis (1983–2022) using MERRA-2/GEOS assimilation model application
Guleria, Shaleen; Shukla, Dericks Praise; Guleria, Raj

A3.1-0003-24 09:30 - 09:45

Beyond Water Gauge: Accurate Water Surface Elevation from Satellite SAR Altimeters over the Tropical Reservoirs in Malaysia
Abdul Majid, Mohd Adha; Hazrina Idris, Nurul; Md Reba, Mohd Nadzri

A3.1-0004-24 09:45 - 10:00

High (6- to 200-m) resolution surface soil moisture for agriculture, wildfire, and landslide applications
Kim, Seungbum; Liao, Tienhao

A3.1-0005-24 10:00 - 10:15

Observation of Paddy Fields Conducting Weed Suppression Experiments Using ALOS-2 PALSAR-2 Full-Polarimetric data
Yonezawa, Chinatsu; Homma, Koki; Barajima, Yugo; Fukada, Ayumu

A3.1-0006-24 10:15 - 10:30

Earth Observation and Applications for Sustainable Wetland Ecosystem: Insights from three decades of study in a dryland wetland in Australia.
Yeo, In-Young

Coffee Break

Observation technology, LULC, and forest monitoring

Chair: Guo, Linghua
Room: EC1-317

A3.1-0007-24 11:00 - 11:15

Space Science related Developments at Green Optics
Kim, Young-Soo; Kim, Dohoon; Lee, Changhee; Jo, Jaeyeong; Choi, Yongseok; Ryou, Junghun; Cho, Hyunil

A3.1-0008-24 11:15 - 11:30

Compact high resolution Earth observation camera for small satellites.
Nikolay, Vedenkin

A3.1-0009-24 11:30 - 11:45

Comparative Performance Analysis of SVM and ANN for Improved Land Use / Land Cover Classification
Asif, Syed Saad Ali

A3.1-0010-24 11:45 - 12:00

Spectral Unmixing-based Mapping of Arctic Plant Species using an Unmmand Aerial Vehicle Spectral Library and a Worldview-3 satellite image
Yang, Junyoung; Lee, Yoo Kyung; Chi, Junhwa

A3.1-0011-24 12:00 - 12:15

Shadow index simulation based on reflectance model using voxel-based virtual forest
Fujiwara, Takumi; Moriyama, Masao

A3.1-0012-24 12:15 - 12:30

Poster presentations
Muramatsu, Kanako

Lunch Break

3D surface reconstruction, extraction of the earth observation parameters, and landscape monitoring

Chair: Muramatsu, Kanako
Room: EC1-317

A3.1-0013-24 15:00 - 15:15

Neural Radiance Field Methods for Satellite Imagery of Polar and Arid Climates
van Kints, Ellemieke; Mishra, Deepak

A3.1-0014-24 15:15 - 15:30

Measuring Greenhouse Gases and Forecasting Forest Fires from KaySat Observations Using ML/AI Techniques
Ozel, Nesibe; Nas, Selman Team: KaySat p. 453

A3.1-0015-24 15:30 - 15:45

Temporal variation of Near Surface Air temperature (NSAT) estimation using MODIS Land Surface Temperature (LST) and other variables through Deep learning
Jalbuena, Rey

A3.1-0016-24 15:45 - 16:00

Use of weather satellite data for estimating diurnal changes in gross primary production capacity with global observing satellite data
Muramatsu, Kanako; Soyama, Noriko

A3.1-0017-24 16:00 - 16:15

Analyzing City Growth and Planning Future Settlements Using Machine Learning and Earth Observational Data
Laffey, Jack; Balfe, Molly; Robertson, Caitlin; Foing, Bernard H.; Horvat, Ivan; Harvey, Matthew; Fazel Hesar, Fatemeh; Crampe, Marc

A3.1-0018-24 16:15 - 16:30

Improvement of earth observation data by the satellite constellation for monitoring archaeological sites across the globe
Elshiwi, Abdalla

Thu, Jul 18, 2024

A3.1 New Technology in Earth Observation and Applications for Sustainable Land Ecosystem

Main Scientific Organizer: Muramatsu, Kanako
Deputy Organizer: Guo, Linghua

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-028 A3.1-0019-24

Application of convolutional neural network using high spatial resolution satellite image for detecting the traditional Japanese windbreak forests
Yonezawa, Chinatsu; Naito, Koki

TWT-029 A3.1-0020-24

Optical Payloads and Ground Telescopes Development at Green Optics
Kim, Young-Soo; Kim, Dohoon; Lee, Changhee; Jo, Jaeyeong; Ryou, Junghun; Cho, Hyunil

TWT-030 A3.1-0021-24

Applying Xarray and Cloud Computing for Time Series Data Visualization and Analysis with Compact Advanced Satellite (CAS) 500 Images of Korea
Lee, Kiwon; Kim, Kwangseob; Lee, Hayoung; Lee, Junghee

TWT-031 A3.1-0022-24

Classification of forest types using GCOM-C/SGLI datasets and shadow index
Soyama, Noriko; Moriyama, Masao; Muramatsu, Kanako

Thu, Jul 18, 2024

B0.1 Planetary Science Highlights

Main Scientific Organizer: Grande, Manuel
Deputy Organizer: Cable, Morgan

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-032 B0.1-0010-24

Probabilities of collisions of bodies ejected from the Earth with the terrestrial planets and the Moon
Ipatov, Sergei I.

TWT-033 B0.1-0011-24

BIRDY - Planetary Geodesy of Small Bodies for Exploration or Reconnaissance

Hestroffer, Daniel; Segret, Boris; Allona, Enrique; Duhautois, Brice; Anohin, Kirill

Thu, Jul 18, 2024

B0.2 Instrumentation for Planetary Exploration

Main Scientific Organizer: Dirri, Fabrizio
Deputy Organizer: Shanmugam, M.

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

B0.2-0024-24 (WITHDRAWN)

Application of big data tools for handling data from space-born instruments
Rashev, Mikhail

TWT-034 B0.2-0025-24

A novel ultrasensitive mass spectrometer for detecting bio-particles in extraterrestrial ice
Gabrielli, Paolo; Bywaters, Kathryn; Olesik, John; Putnam, Jonathan; Seto, Emily; Williams, Ellen; Williams, Jeffrey; Zacny, Kris

TWT-035 B0.2-0026-24

Gravity Imaging Radio Observer (GIRO) and Advanced Pointing Imaging Camera (APIC)
Park, Ryan; Riedel, Joseph

TWT-036 B0.2-0027-24

μ-SAND: an innovative microbalance device for dust and volatile characterization for in-situ planetary exploration
Gisellu, Chiara; Palomba, Ernesto; Dirri, Fabrizio; Longobardo, Andrea; Biondi, David; Nardi, Enrico; Zampetti, Emiliano; Saggin, Bortolino; Scaccabarozzi, Diego

TWT-037 B0.2-0028-24

Optical design of the Panoramic Lens for the Earth-Moon-Mars (EMM) project
Greggio, Davide; Pernechele, Claudio; Martini, Paolo; Emanuele, Simioni; Corti, Marco Giovanni; Scaccabarozzi, Diego; Saggin, Bortolino; Lessio, Luigi; Esposito, Francesca; D'amico, Fabio; Cortesi, Ugo; Gai, Marco; Argan, Andrea; Donnarumma, Immacolata; Turchi, Alessandro

TWT-038 B0.2-0029-24

DISC (Dust Impact Sensors and Counter) perfromance evaluation by means of real and simulated Hyper Velocity impacts
Della Corte, Vincenzo; Rotundi, Alessandra; Cozzolino, Fabio; Piccirillo, Alicemaria; Longobardo, Andrea; Ferone, Alessio; Bertini, Ivano; Inno, Laura; Wozniakiewicz, Penelope; Burchell, Mark; Alesbrooke, Luke; Rothkaehl, Hanna

TWT-039 B0.2-0030-24

A Non-Destructive 3D Elemental Imager Based on Active Neutron Interrogation for Lunar Missions
Ayllon Unzueta, Mauricio; Parsons, Ann

TWT-040 B0.2-0031-24

Research into a EuroMoonMars-led Online Lunar Habitat Simulation: Exploring Sustainable and Self-Sufficient Solutions for Moon Exploration
Balfe, Molly; Laffey, Jack; Harvey, Matthew; Robertson, Caitlin; Horvat, Ivan; Fazel Hesar, Fatemeh; Foing, Bernard H.

B0.2-0032-24 (WITHDRAWN)

Miniaturized gas chromatographs based on MEMS technology for space instrumentation to probe the chem-ical composition of planetary environments
Szopa, Cyril; Szopa, Cyril; Bigourd, Malak; Cardinael, Pascal; Buch, Arnaud; Boco, Audrey; Philippart, Arnaud; Peulon-Agasse, Valerie; Coscia, David; Guerrini, Vincent; Bertrand, Fabrice; Ferreira, Frederic

TWT-042 B0.2-0033-24

Near-Ultraviolet Astronomical Observations from the Moon: Lunar Ultraviolet Cosmic Imager (LUCI) and more...
Safonova, Margarita; Safonova, Margarita; Chandra P, Bharat; Ghatul, Shubham; Gopalakrishnan Nair, Binukumar; Jain, Shubhangi; Babu, Mahesh; Mohan, Rekhesh; Murthy, Jayant; Foing, Bernard H.

TWT-043 B0.2-0034-24

DEVELOPMENT PLAN OF A 20-METER RADIO TELESCOPE AT TIMAU NATIONAL OBSERVATORY OF INDONESIA
Sitompul, Peberlin Parulian; Manik, Timbul; Batubara, Mario; Lathif, Musthofa; Suryana, Rizal; Mumtahana, Farahhati; Kesumaningrum, Rasdewita; Nurul Huda, Ibnu; Yushady Ch Bissa, Stevry; Hidayat, Taufiq; Razi, Pakhrur

Thu, Jul 18, 2024

B0.3 Technology for Planetary Exploration

Main Scientific Organizer: Longobardo, Andrea
Deputy Organizer: Smith, Heather

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-044 B0.3-0024-24

Compressively sensed decoding for deep space edges
Shan, Hao

TWT-045 B0.3-0025-24

Research on basic technology of planetary exploration scientific mission data utilization and management for On-Orbit Servicing mission design
Jang, Yoon-Jeong

TWT-046 B0.3-0026-24

PLANETARY SURFACE SIMULATOR FOR PLANETARY EXPLORATION AND ASTRONAUTIC PROGRAMS
Abdelaal, Mohamad

Thu, Jul 18, 2024

B1.1 Small Body Science in a New Generation of Surveys, Observatories, Sample Returns, and Planetary Defense

Main Scientific Organizer: Milam, Stefanie
Deputy Organizer: Palomba, Ernesto

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-047 B1.1-0055-24

EnVisS: the Entire-Visible-Sky camera for the Comet Interceptor ESA mission
Da Deppo, Vania; Della Corte, Vincenzo; Zuppella, Paola; Lara, Luisa; Castro Marin, José M.; Gutierrez, Pedro Team: EnVisS Team p. 450

TWT-048 B1.1-0056-24

Mass Determination of the Target Asteroids of the LUCY Mission
Hahn, Matthias; Paetzold, Martin; Andert, Thomas; Levison, Harold; Noll, Keith; Marchi, Simone

TWT-049 B1.1-0057-24

The introduction of Korea Meteor Monitoring and Observation Network : system overview
Roh, Dong-Goo

TWT-050 B1.1-0058-24

Mathematical model of the origin of dense rings taking into account the gravity and magnetism of Saturn
Tchernyi, Vladimir; Kapranov, Sergey

TWT-051 B1.1-0059-24

STREAMS AND ASSOCIATIONS OF METEOROIDS ACCORDING TO THE RESULTS OF RADAR OBSERVATIONS IN HISAO FOR JANUARY 1970
Narziev, Mirhusen; Khujanazarov, Habibjon

TWT-052 B1.1-0060-24

Space weathering simulation with UV Irradiation - rapid decrease in visible reflectance
Sasaki, Sho; Morimitsu, Shin-Ichi; Kaiden, Hiroshi; Egashira, Yusuke; HIroi, Takahiro; Hasegawa, Sunao; Wada, Takehiko

TWT-053 B1.1-0061-24

NSOS-a: Near Space Optical Survey-alpha Telescope
Kim, Myungjin Team: NSOS-a p. 455

TWT-054 B1.1-0062-24
Detection of Cometary Activity on Centaur 2014 OG392
Jevcak, Peter; Lilly, Eva; Silha, Jiri

Thu, Jul 18, 2024

B3.1 Lunar Science and Exploration

Main Scientific Organizer: Bhatt, Megha
Deputy Organizer: Foing, Bernard H.

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-055 B3.1-0061-24
Korea Pathfinder Lunar Orbiter (KPLO) Gamma-ray Spectral Data Processing for the Lunar Elemental Map
Kim, Suyeon; Kim, Kyeong; Hong, Ik-Seon; Yi, Eungseok; Kim, Sangwoo; Kwon, Gyeongrok

TWT-056 B3.1-0062-24
Data Correction of KPLO Gamma-Ray Spectrometer (KGRS)
Hong, Ik-Seon; Kim, Suyeon; Kim, Kyeong

TWT-057 B3.1-0063-24
Polarimetric Analysis of Reiner Gamma Swirl Using Danuri's PolCam Data
Jeong, Minsup; Choi, Young-Jun; Kim, Sungsoo; Baek, Kilho; Moon, Bongkon; Lee, Dukhang; Sim, Chae Kyung; Kang, Kyungin; Koo, Bonju

TWT-058 B3.1-0064-24
Lunar magnetic field observations by KMAG onboard KPLO
Kim, Khan-Hyuk; Jin, Ho; Baek, Seul-Min; Lee, Jaehee; Jo, Wooin; Park, Hyeonhu; Lee, Junhyun; Jang, Yunho; Kang, Hyeonji; Choi, Young-Jun; Kim, Eunhyeuk

TWT-059 B3.1-0065-24
KMAG Observation of the solar Magnetic field speed in cis-lunar space
Ahn, Yesun; Jin, Ho; Jo, Wooin; Kim, Khan-Hyuk; Garrick-Bethell, Ian; Park, Hyeonhu

TWT-060 B3.1-0066-24
Analyses on reflectance spectra of Apollo samples and grain size estimation using the Hapke model
Cho, Eunjin; Jeong, Minsup; Trang, David; Sim, Chae Kyung; Kim, Serin; Li, Shuai; Choi, Young-Jun; Kim, Sungsoo; Yi, Yu

TWT-061 B3.1-0067-24
Polarimetric Experiments of Lunar Soil Samples by Particle Size
Kim, Serin; Li, Shuai; Jeong, Minsup; Baek, Kilho; Kim, Sungsoo; Cho, Eunjin; Choi, Young-Jun

B3.1-0068-24 (WITHDRAWN)
LEIA: NASA's first biological mission on the lunar surface since 1972
Santa Maria, Sergio

TWT-063 B3.1-0069-24
Maturation by Solar-Wind Particles and Refreshment by Meteorite Impacts on the Lunar Crater Walls
Baek, Kilho; Kim, Sungsoo; Sim, Chae Kyung

TWT-064 B3.1-0070-24
Detection of Lava Tube Network Beneath Pit Cluster on the Moon with Gravimetry
Hong, Ik-Seon; Kim, Kyeong; Yi, Yu

TWT-065 B3.1-0071-24
The Relationship Between the Energization of Moon-originating Ions and Terrain Type on the Lunar Surface
Lee, Jaehee; Kim, Khan-Hyuk; Baek, Seul-Min; Jin, Ho; Saito, Yoshifumi; Nishino, Masaki N.; Yokota, Shoichiro

TWT-066 B3.1-0072-24
The Observations of Low Energy Plasma and Magnetic Field Oscillations in the Lunar Wake
Baek, Seul-Min; Kim, Khan-Hyuk; Seough, Jungjoon; Choi, Young-Jun; Jin, Ho

TWT-067 B3.1-0073-24
Engineering Qualification Model of Dust Mitigation Module for GrainCams in Lunar Surface Exploration Mission
Shin, Jehyuck; Lee, Dukhang; Jeong, Minsup; Moon, Bongkon; Lee, Daehee; Kim, Woojin; Choi, Young-Jun

TWT-068 B3.1-0074-24
Optical Design and Analysis of SurfCam
Kim, Minbae; Kim, Jihun; Jeong, Minsup; Moon, Bongkon; Kim, Woojin; Choi, Seonghwan; Lee, Daehee; Lee, Dukhang; Sim, Chae Kyung; Park, Sung-Joon; Kim, Yunjong; Shin, Jehyuck; Baek, Seul-Min; Choi, Young-Jun; Kim, Sungsoo; Lee, Mingyeong

TWT-069 B3.1-0075-24
The path-tracing Simulation of a Light-Field Camera system, SurfCam/GrainCams for lunar surface exploration
Kim, Minbae; Lee, Mingyeong; Kim, Jihun; Jeong, Minsup; Moon, Bongkon; Kim, Woojin; Choi, Seounghwan; Lee, Daehee; Lee, Dukhang; Sim, Chae Kyung; Park, Sung-Joon; Kim, Yunjong; Shin, Jehyuck; Baek, Seul-Min; Choi, Young-Jun; Kim, Sungsoo

TWT-070 B3.1-0076-24
Requirement-Based Testing for Electronics System of the GrainCams Engineering Qualification Model
Kim, Nayeon; Baek, Seul-Min; Shin, Jehyuck; Kim, Woojin; Moon, Bongkon; Lee, Dukhang; Jeong, Minsup; Sim, Chae Kyung; Choi, Young-Jun; Lee, Daehee

TWT-071 B3.1-0077-24

Test results of the GrainCams, a payload for a CLPS lunar rover
Kim, Woojin; Moon, Bongkon; Lee, Dukhang; Lee, Daehee; Kim, Minbae; Jeong, Minsup; Kim, Jihun; Park, Sung-Joon; Kim, Yunjong; Choi, Seounghwan; Shin, Jehyuck; Lee, Mingyeong; Sim, Chae Kyung; Choi, Young-Jun; Kim, Sungsoo

TWT-072 B3.1-0078-24

Towards Safer Lunar Habitats: Strategies for Detecting and Mitigating Moonquake Risks
Shende, Pramit; Hashir, Muhammad

TWT-073 B3.1-0079-24

Proposal of lunar habitation protection structure and SHM system
Kim, Hyungdo; Chung, Joon Soo

TWT-074 B3.1-0080-24

Study on the Application of Inter-Satellite Link in Cis-Lunar space Navigation
Chen, Yanling; Huang, Yong; Yang, Peng; Li, Peijia; Zhou, Shanshi

TWT-075 B3.1-0081-24

Mechanical and Thermal Design of LVRAD, A Lunar Surface Payload for the Study of Radiation Environment in the Lunar South Pole Region
Lee, Dukhang; Nam, Uk-Won; Sohn, Jongdae; Park, Won-Kee; Youn, Sukwon; Kim, Sunghwan; Kim, Hongjoo; Shin, Jehyuck; Sim, Chae Kyung; Choi, Young-Jun; Jun, Insoo; Ye, Sung-Joon

TWT-076 B3.1-0082-24

Suitability of Mare Vaporum as a Landing Site for Resource Utilization
Yi, Eungseok; Hess, Marcel; Kim, Kyeong; Wöhler, Christian; Berezhnoy, Alexey

TWT-077 B3.1-0083-24

Ice Drilling for Lunar Surface Exploration and Shear Strength Evaluation
Ryu, Byung Hyun; Jin, Hyunwoo; Lee, Jangguen

TWT-078 B3.1-0084-24

Modelling and simulation of remote sensing resident space objects in the cislunar region
Heo, Jun Hyuk

TWT-079 B3.1-0085-24

Exploring the Potential of New Remote Control Technology
Fazel Hesar, Fatemeh; Foing, Bernard H. Team: Eurospacehub academy p. 450

Thu, Jul 18, 2024

B4.1 Mercury Science and Exploration

Main Scientific Organizer: Benkhoff, Johannes
Deputy Organizer: Murakami, Go

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-080 B4.1-0006-24

Prospects for Understanding Hollow Morphology with Filtered Laser Altimeter Measurements
Stenzel, Oliver J.; Hilchenbach, Martin

TWT-081 B4.1-0007-24

Strofio operations: a new molecular beam facility
Schroeder, Jared; Livi, Stefano; Patrick, Edward; Turner, John

Thu, Jul 18, 2024

B4.2 Venus Science and Exploration

Main Scientific Organizer: Lee, Yeon Joo
Deputy Organizer: Wilson, Colin

Room: EC1-214

B4.2-0001-24 09:00 - 09:20 (solicited)

The Basal Magma Ocean Revolution: Applications to Venus
O'rourke, Joseph

B4.2-0002-24 09:20 - 09:35

Formation of Pancake Domes on Venus as Viscous Flows Over an Elastic Lithosphere
Borrelli, Madison; Michaut, Chloé; O'rourke, Joseph

B4.2-0003-24 09:35 - 09:50

Active volcanoes of Kamchatka as suitable terrestrial analogs for future landing missions and for change detection analysis on Venus.
D'incecco, Piero; Gorinov, Dmitry; Zelenyi, Lev; Zasova, Ludmila; Korablev, Oleg; Evdokimova, Daria; Ivanov, Mikhail; Garvin, Jim; Arney, Giada; Getty, Stephanie; Filiberto, Justin; Kohler, Erika; Bruzzone, Lorenzo; Head, James; Bhattacharya, Satadru; Bhiravarasu, Sriram; Putrevu, Deepak; López, Ivan; Ghail, Richard; Mason, Philippa; Flynn, Ian; Brossier, Jeremy; Branca, Stefano; Corsaro, Rosa Anna; Monaco, Carmelo; Aveni, Simone; Trang, David; Crandall, Jake; Mari, Nicola; Blackett, Matthew; Komatsu, Goro; Lang, Nicholas; Thomson, Bradley; Pagano, Isabella; Cassisi, Santi; Eggers, Gabriel; Kosenkova, Anastasia; Di Achille, Gaetano

B4.2-0004-24 09:50 - 10:05

Modeling the Thermo-Mechanical Erosion of Canali on Venus by Different Lava Types
Trussell, Allyson; O'Rourke, Joseph; Borrelli, Madison; Williams, David

B4.2-0005-24 10:05 - 10:20

Stationary waves as a proxy to measure Venus's spin
Peralta, Javier; Gutierrez-Portilla, Miguel Angel

Coffee Break

Room: EC1-214

B4.2-0006-24 11:00 - 11:15

A search for particulates in the deep atmosphere using the Venera 13 and 14 Spectrophotometric observations.
Kulkarni, Shubham Vilas; Irwin, Patrick; Wilson, Colin; Ignatiev, Nikolay

B4.2-0007-24 11:15 - 11:30

Venus cloud variations and near-surface H2O content in transparency windows observations by SPICAV IR/VEx
Evdokimova, Daria; Fedorova, Anna; Zharikova, Maria; Belyaev, Denis; Korablev, Oleg; Bertaux, Jean-Loup

B4.2-0008-24 11:30 - 11:45

Retrieval of the distributions of the Venusian cloud-top sulfur dioxide from Akatsuki UV images
Iwanaka, Tatsuro; Imamura, Takeshi; Aoki, Shohei; Sagawa, Hideo; Marcq, Emmanuel

B4.2-0009-24 11:45 - 12:00

Venus Dayside Observation Campaign in 2023 with Bepi-Colombo, Akatsuki, and Ground-based Telescopes
Lee, Yeon Joo Team: Venus dayside observation team p. 461

B4.2-0010-24 12:00 - 12:15

Rotational/divergent wind structure and energetics of thermal tides in AORI Venus GCM
Yamamoto, Masaru; Ikeda, Kohei; Takahashi, Masaaki; Satoh, Masaki

B4.2-0011-24 12:15 - 12:30

Propagation of Venusian thermal tides both upward and downward from the cloud top revealed by the Akatsuki radio occultation
Ando, Hiroki; Noguchi, Katsuyuki; Imamura, Takeshi; Takagi, Masahiro; Sugimoto, Norihiko; Matsuda, Yoshihisa

Lunch Break

Room: EC1-214

B4.2-0012-24 15:00 - 15:20 (solicited)

Long-Term Variability of Mean Winds and Planetary-scale Waves around Venusian Cloud Top Observed with Akatsuki/UVI
Horinouchi, Takeshi; Kouyama, Toru; Imai, Masataka; Murakami, Shin-Ya; Lee, Yeon Joo; Yamazaki, Atsushi; Yamada, Manabu; Watanabe, Shigeto; Imamura, Takeshi; Peralta, Javier; Satoh, Takehiko

B4.2-0013-24 15:20 - 15:35

Long-term Studies of the Venusian atmosphere with the Radio Science Experiment VeRa on Venus Express
Tellmann, Silvia; Häusler, Bernd; Paetzold, Martin; Oschlisniok, Janusz; Peter, Kerstin; Ando, Hiroki; Imamura, Takeshi; Noguchi, Katsuyuki; Dumoulin, Caroline; Rosenblatt, Pascal

B4.2-0014-24 15:35 - 15:50

Long-term variation of UV albedo and superrotation in the Venusian upper atmosphere
Takikawa, Yuki; Takagi, Masahiro; Ando, Hiroki; Sagawa, Hideo; Sugimoto, Norihiko; Kouyama, Toru; Matsuda, Yoshihisa

B4.2-0015-24 15:50 - 16:05

Role of a Kelvin wave in the formation of Venusian clouds
Imamura, Takeshi

B4.2-0016-24 16:05 - 16:20

Planetary-scale waves and the angular momentum balance in the Venus clouds
Lebonnois, Sebastien; Lai, Dexin; Li, Tao

Coffee Break

Room: EC1-214

B4.2-0017-24 09:00 - 09:15

Rossby wave and its impact on the Venus atmosphere evaluated by observing system simulation experiment
Komori, Nobumasa; Sugimoto, Norihiko; Fujisawa, Yukiko; Abe, Mirai; Kouyama, Toru; Ando, Hiroki; Takagi, Masahiro; Yamamoto, Masaru

B4.2-0018-24 09:15 - 09:30

Mesoscale gravity wave dayside and nightside observations on Venus' cloud
Silva, Jose; Peralta, Javier; Hueso, Ricardo; Lee, Yeon Joo; Imamura, Takeshi; Cardesin-Moinelo, Alejandro; Lefevre, Maxence; Espadinha, Daniela

B4.2-0019-24 09:30 - 09:45

Cloud structure around the large discontinuity seen in the night-side of Venus
Satoh, Takehiko; Sato, Takao; Imamura, Takeshi; Hashimoto, George; Kuroda, Takeshi

B4.2-0020-24 09:45 - 10:00

Bimodal distribution of aerosols in the upper haze of Venus: Insights from joint SPICAV-UV and -IR observations on Venus Express
Mikhail, Luginin; Fedorova, Anna; Belyaev, Denis; Montmessin, Franck; Korablev, Oleg; Bertaux, Jean-Loup

B4.2-0021-24 10:00 - 10:15

Size distribution of aerosols in the atmosphere of Venus constrained by the glory phenomenon
Zubko, Evgenij; Lee, Yeon Joo

B4.2-0022-24 10:15 - 10:30

Space Weather Effects on Venusian Ionosphere
Sheel, Varun; Sharma, Satyandra Mohan; Paetzold, Martin

Thu, Jul 18, 2024

B4.2 Venus Science and Exploration

Main Scientific Organizer: Lee, Yeon Joo
Deputy Organizer: Wilson, Colin

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area:

EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-082 B4.2-0037-24

Radio Scintillations observed during Venus Express radio occultation measurements
Oschlisniok, Janusz; Paetzold, Martin; Tellmann, Silvia; Häusler, Bernd

TWT-083 B4.2-0038-24

Absorption characterization of Venusian clouds using HST-STIS observations
Modak, Ashimananda; Lee, Yeon Joo

TWT-084 B4.2-0039-24

Observations of HDO and H2O over Venus nightside by IRTF/iSHEL
Aoki, Shohei; Robert, Severine; Sagawa, Hideo; Sato, Takao; Vandaele, Ann C.; Erwin, Justin; Marcq, Emmanuel; Iwanaka, Tatsuro; Imamura, Takeshi

TWT-085 B4.2-0040-24

Acidophilic fungi – new candidates for the unknown UV absorber in the Venus clouds?
Słowik, Grzegorz; Olewicz, Anna; Kolarik, Miroslav

TWT-086 B4.2-0041-24

Characterization of small-scale UV contrasts at Venus's cloud top level
Kang, Hyeonju; Lee, Yeon Joo

TWT-087 B4.2-0042-24

THE JOINT NASA-ESA VENUS SCIENCE COORDINATION GROUP (VESCOOR) TO SUPPORT THE THREE VENUS SPACECRAFT
Marinangeli, Lucia; Mcgovern, Patrick J.; Straume-Lindner, Anne Grete; Colangeli, Luigi; Zouganelis, Ioannis; Schulte, Mitchell; de Paula, Ramon; Hays, Lindsay Team: VeSCoor Group p. 461

Thu, Jul 18, 2024

B4.4 Forward Planning for the Exploration of Mars

Main Scientific Organizer: Haltigin, Timothy
Deputy Organizer: Hays, Lindsay; Kminek, Gerhard; Matousek, Steven

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-088 B4.4-0008-24

TESTING THERMOANALYTICAL TECHNIQUES FOR MARS SAMPLE RETURN MISSION: MICROALGAE AS PROOF OF CONCEPT
Ruiz-Bermejo, Marta; Blasco, Blanca; Aguilera, Angeles; Mateo-Marti, Eva

Thu, Jul 18, 2024

B5.1 Jupiter, the Galilean Satellites, Rings and Magnetospheres: Juno Results

Main Scientific Organizer: Bolton, Scott
Deputy Organizer: Connerney, John E.p.

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-089 B5.1-0015-24

Structure and dynamics of the Io Plasma Torus: from multi-spacecraft and multi-instrument observations to models
Vinci, Giuliano; Blanc, Michel; Smith, H Todd; Nenon, Quentin; Devinat, Marie; Liu, Zhi-Yang; Wang, Yuxian

TWT-090 B5.1-0016-24

Global Distribution of Energetic Protons and Their Precipitation into the Atmosphere at Jupiter
Shen, Xiaochen; Li, Wen; Ma, Qianli

Thu, Jul 18, 2024

B5.3 Ocean Worlds: Past, Present, and Future

Main Scientific Organizer: Cable, Morgan
Deputy Organizer: Solomonidou, Anezina

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-091 B5.3-0012-24

Amino Acid-Mediated Formation of CO2 in Flash-Frozen Ceres Brines
Vu, Tuan; Reynoso, Lucas; Johnson, Paul; Hodyss, Robert

Thu, Jul 18, 2024

B6.1-E4.1 Exoplanet Detection and Characterisation: Current Research, Future 0pportunities and the Search for Life Outside the Solar System

Main Scientific Organizer: Altieri, Francesca
Deputy Organizer: Ireland, Michael

Room: EC1-215

B6.1-0001-24 09:00 - 09:30 (solicited)
Streaming Instability: Born Again
Lin, Min-Kai

B6.1-0002-24 (WITHDRAWN) 09:30 - 09:45
Hunting cold planets: Breaking the low mass planet detection limit with Euclid and Roman
Rektsini, Efstathia Natalia; Alard, Christophe; Beaulieu, Jean-Philippe; Cole, Andrew

B6.1-0003-24 09:45 - 10:00
Time-domain exoplanet science with TESS and Roman: Explorations of gas giant atmospheres and orbital evolution
Wong, Ian; Shporer, Avi

B6.1-0004-24 10:00 - 10:15
The impact of disk and atmospheric chemistry on the observable oxygen abundance in giant planets
Turrini, Diego; Pacetti, Elenia; Fonte, Sergio; Schisano, Eugenio; Molinari, Sergio; Polychroni, Danae; Politi, Romolo; Zusi, Michele

B6.1-0005-24 10:15 - 10:30
The Ariel space telescope: an innovative cryogenic instrument to explore the exoplanetary atmospheres.
Pace, Emanuele Team: ARIEL TELESCOPE ASSEMBLY TEAM p. 448

Coffee Break

Room: EC1-215

B6.1-0006-24 11:00 - 11:15
A feasible and affordable concept for the Large Interferometer For Exoplanets (LIFE) mission
Ireland, Michael

B6.1-0007-24 (WITHDRAWN) 11:15 - 11:30
TOLIMAN - The microsatellite pioneering the search for Earth-like planets around nearby binary star systems
Langford, Connor; Tuthill, Peter; Betters, Christopher; Charles, Max; Crous, Fred; Deagan, Conaire; Desdoigts, Louis; Doelman, David; George, Mark; Grattan, Kyran; Guyon, Olivier; Holland, Thomas; Klupar, Peter; Larkin, Kieren; Luk, Clarissa; Montet, Ben; Pope, Benjamin; Snik, Frans; Taras, Adam; Wong, Alison; Worden, Simon

B6.1-0008-24 11:30 - 11:45
Characterizing Exoplanets with Habitable World Observatory
Hu, Renyu

B6.1-0009-24 11:45 - 12:00
Observability of Other Earths
Baker, Daniel N.

B6.1-0010-24 (WITHDRAWN) 12:00 - 12:15
The Hycean Paradigm in the Search for Life
Madhusudhan, Nikku

B6.1-0011-24 12:15 - 12:30
The Galactic Habitable Zone: What Gaia has taught us.
Mason, Paul A.; Biermann, Peter

Lunch Break

Room: EC1-215

B6.1-0012-24 15:00 - 15:15
The Interiors of Giant Exoplanets in the JWST era
Miguel, Yamila

B6.1-0013-24 15:15 - 15:30
Searching for biosignatures on exoplanets in UV: predictions and constraints for nitric oxide detection with Spektr-UF (WSO-UV)
Tsurikov, Grigorii; Bisikalo, Dmitry

B6.1-0014-24 15:30 - 15:45
Age analysis of exoplanet hosting stars from stellar isochrone models
Chowbay, Swastik; Banyal, Ravinder K.

B6.1-0015-24 15:45 - 16:00
Characterization of upper atmospheres of hot exoplanets by multi-line observations and complex numerical simulations
Shaikhislamov, Ildar; Khodachenko, Maxim; Rumenskikh, Marina; Shepelin, Artem; Golubovskii, Maxim; Sharipov, Stas; Berezutsky, Artem

B6.1-0016-24 16:00 - 16:15
ESTIMATION OF MAGNETIC FIELDS OF EXOPLANETS BY VARIATION IN ABSORPTION LINES OF MULTIPLETS
Rumenskikh, Marina; Taichenachev, Alexei; Shaikhislamov, Ildar; Khodachenko, Maxim

B6.1-0017-24 (WITHDRAWN) 16:15 - 16:30
Pitfalls and Potential for Directly Imaged Exoplanet Observations: Photobombing and Weather Driven Variability
Saxena, Prabal; Cacaj, Drinor; Kelkar, Soumil; Oza, Apurva

Thu, Jul 18, 2024

B6.1-E4.1 Exoplanet Detection and Characterisation: Current Research, Future 0pportunities and the Search for Life Outside the Solar System

Main Scientific Organizer: Altieri, Francesca
Deputy Organizer: Ireland, Michael

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-092 B6.1-0018-24

Broadband Linear Polarimetry of Exoplanet Upsilon Andromedae b: Constraints on the Orbital and Physical Parameters
Abdul Qadir, Yasir; Berdyugin, Andrei; Kravtsov, Vadim; Sakanoi, Takeshi; Kagitani, Masato; Poutanen, Juri

TWT-093 B6.1-0019-24

Spectral Insights into Exoplanetary Atmospheres: A Case Study of WASP-189b through CUTE's Ultraviolet Observations
Duann, Yi; Chang, Loren; Ip, Wing-Huen; France, Kevin; Lin, Chia-Lung; Huang, Li-Ching; Chou, Hui-Hui

TWT-094 B6.1-0020-24

Assessing the detectability of Earth-like atmospheres on terrestrial planets orbiting M-dwarf stars using High-Resolution Spectroscopy
Emeka-Okafor, Vanessa

Thu, Jul 18, 2024

C0.1 International Standards for Space Environment

Main Scientific Organizer: Tobiska, W Kent
Deputy Organizer: Kitazawa, Yukihito

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-095 C0.1-0009-24

Modeling of the plasma environment for spacecraft surface charging statistical analysis in the inner magnetosphere
Nakamura, Masao; Matsui, Daichi

Thu, Jul 18, 2024

C0.2 Advances in Remote Sensing of the Middle and Upper Atmospheres and Ionosphere from the Ground and from Space, including Sounding Rockets, Novel Radar and Multi-instrument Studies

Main Scientific Organizer: Rees, David
Deputy Organizer: Kosch, Michael

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-096 C0.2-0025-24

Polarimetry of stratospheric aerosol on CubeSat satellite
Milinevskyi, Gennadii; ***Shi, Yu***; Shi, Yu; Syniavskyi, Ivan; Oberemok, Yevgeny; Sosonkin, Mikhail; Dlugach, Zhanna; Ivanov, Yuriy; Danylevsky, Vassyl; Yukhymchuk, Yuliia; Wei, Xuanyi

TWT-097 C0.2-0026-24

Inter-Satellite GPS Interference: Observation and Model
Abraham, Nancy; Jayachandran, Thayyil; Kashcheyev, Anton

TWT-098 C0.2-0027-24

Retrieval of total electron content from ship-borne GPS measurements in the ocean
Sohn, Dong-Hyo; Choi, Byung-Kyu; Hong, Junseok; Park, Yosup

TWT-099 C0.2-0028-24

Field-aligned Aspect Sensitivity of Mid-latitude E Region Plasma Irregularities Measured by a VHF Atmospheric Radar
You, Zhen-Xiong; Hashiguchi, H.

TWT-100 C0.2-0029-24

The results of wind retrieval based on a new ground-based Fabry-Perot interferometer
Wang, Houmao; Li, Pengda; Liu, Jiu; Wang, Ziyue

Thu, Jul 18, 2024

C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies

Main Scientific Organizer: Fagundes, Paulo Roberto
Deputy Organizer: Kavutarapu, Venkatesh

Ionospheric Irregularities

Chair: Yizengaw, Endawoke
Room: EC1-312

C1.1-0012-24 11:00 - 11:15

Estimation of ionospheric irregularities using ROTI over EIA and equatorial stations of India during the solar cycle 24
Singh, Abhay Kumar; Chaurasia, Sunil Kumar; Patel, Kalpana

C1.1-0013-24 11:15 - 11:30

L-band Ionospheric scintillation occurrences observed from the southern Mediterranean
Pica, Emanuele; Romano, Vincenzo; Alfonsi, Lucilla; Cesaroni, Claudio; de Franceschi, Giorgiana; Haralambous, Haris; Marcocci, Carlo; Spogli, Luca; Vallianatos, Filippos

C1.1-0014-24 11:30 - 11:45

Studies on Low-Latitude Ionospheric Irregularities by 53 MHz CU Radar during 2021-2023
Das, Tanmay; Paul, A

C1.1-0015-24 11:45 - 12:00

Whether equatorial plasma bubble (EPB) can be predicted using C/NOFS observations
Ghosh, Soujan; Peddapati, Pavanchaitanya; Patra, Amit

C1.1-0016-24 12:00 - 12:15

EIA and EPB morphology over the american sector during the Spacex storm of 3-4 February, 2022
Amadi, Brians Chinonso; De Paula, Eurico; Kherani, Esfhan; Qian, Liying

C1.1-0017-24 12:15 - 12:30

Near real-time observations and AI-based forecast of ionospheric scintillations in the equatorial region
Yaya, Philippe; Cherrier, Marie; Naouri, Ali; Souissi, Roiya

Coffee Break

Space weather and geomagnetic storms

Chair: Lastovicka, Jan
Room: EC1-312

C1.1-0018-24 15:00 - 15:30 (solicited)

Absence of high frequency echoes from ionosondes during the 23-25 April 2023 geomagnetic storm
Habarulema, John Bosco; Zhang, Yongliang; Matamba, Tshimangadzo Merline; Buresova, Dalia; Lu, Gang; Katamzi-Joseph, Zama; Fagundes, Paulo Roberto; Okoh, Daniel; Seemala, Gopi

C1.1-0019-24 15:30 - 16:00 (solicited)

First ground-based daytime redline observations of stable auroral red arcs and storm enhanced densities – signatures of plasmasphere-ionosphere interactions in the daytime
Pallamraju, Duggirala; Upadhyay, Kshitiz

C1.1-0020-24 16:00 - 16:15

Irregular Enhancement of Equatorial Plasma Bubbles Over South America During the Recovery Phase of a Strong Magnetic Storm
Picanço, Giorgio; Denardini, Clezio Marcos; Nogueira, Paulo; Mendoza, Luciano; Fagundes, Paulo Roberto; Urutti, Anabella; Romero-Hernández, Esmeralda; Resende, Laysa

C1.1-0021-24 16:15 - 16:30

Machine Learning Approaches for Space Weather Predictions
Lin, Cissi; Shih, Chung-Yu; Chang, Chia-Hui; Hwang, Feng-Nan

Lunch Break

Space weather and geomagnetic storms

Chair: Goncharenko, Larisa
Room: EC1-312

C1.1-0022-24 17:00 - 17:30 (solicited)

Optimum solar activity index selection and impact on calculating foF2 long-term trends
Lastovicka, Jan

C1.1-0023-24 17:30 - 18:00 (solicited)

Toward a Physics-Informed Machine Learning model for Global Total Electron Content forecasting 24 hours in advance
Cesaroni, Claudio

C1.1-0024-24 18:00 - 18:15

Effects of the Geomagnetic Storm of April 2023 on the Thermosphere-Ionosphere System over Equatorial Indian Region
Krishnan, Lalitha G; Shiokawa, Kazuo; Pant, Tarun Kumar; Lu, Gang; Porunakatu Radhakrishna, Shreedevi; Sunda, Surendra

C1.1-0025-24 18:15 - 18:30

Solar wind sources, coupling, energy distribution, and geomagnetic responses of the Supersubstorms of the Solar Cycle 24
Hajra, Sritam; Dashora, Nirvikar

Coffee Break

Space weather and geomagnetic storms

Chair: Kavutarapu, Venkatesh
Room: EC1-312

C1.1-0026-24 09:00 - 09:30 (solicited)

On the recent studies and advances with Space Weather scales: magnetic and ionospheric
Denardini, Clezio Marcos; Resende, Laysa; Moro, Juliano; Chen, Sony Su; Carmo, Carolina S.; Guizelli, Lais Maria; Picanço, Giorgio; Piasi, Amanda; Nogueira, Paulo; Romero-Hernández, Esmeralda; Corona-Romero, Pedro; Valcorte, Anita; Campelo, Jaziel Felipe Braga; Silva, Regia

C1.1-0027-24 09:30 - 09:45

Statistical analysis of medium-scale traveling ionospheric disturbances over South Africa based on GNSS observations
Otsuka, Yuichi; Noda, Taisei; Sinbori, Atsuki; Sori, Takuya; Nishioka, Michi; Perwitasari, Septi; Katamzi-Joseph, Zama

C1.1-0028-24 09:45 - 10:00

Solar Flares and the Intricate Response of Earth's Outer Geomagnetic Field Variation
Fagundes, Paulo Roberto; Pillat, Valdir Gil; Tardelli, Alexandre

C1.1-0029-24 (WITHDRAWN) 10:00 - 10:15

Analysis and risk assessment of the ground magnetic response to the severe space weather events of 23-24 March 2023
Amaechi, Paul; Akala, Andrew; Oyeyemi, Elijah; Amory, Christine

C1.1-0030-24 10:15 - 10:30

Development and validation of ionospheric vertical plasma drift model for the Indian and Indonesian longitudes
Peddapati, Pavanchaitanya; Patra, Amit; Otsuka, Yuichi; Yokoyama, Tatsuhiro; Yamamoto, Mamoru

Thu, Jul 18, 2024

C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies

Main Scientific Organizer: Fagundes, Paulo Roberto
Deputy Organizer: Kavutarapu, Venkatesh

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-101 C1.1-0057-24

Global distribution of mesospheric temperature inversions at low latitudes
Subramanian, Gurubaran; Chauhan, Nilesh; Jadhav, Ashish

TWT-102 C1.1-0058-24

Optimizing Deep Learning Models for Ionospheric TEC Prediction: Insights from Storm-to-Quiet Day Ratios
Jeong, Se-Heon; Lee, Woo Kyoung; Kil, Hyosub; Jang, Soo-jeong; Kim, Jeongheon; Kwak, Young-Sil

C1.1-0059-24 (WITHDRAWN)

Forecasting Large-Scale Travelling Ionospheric Disturbances using the CatBoost ML Algorithm
Guerra, Marco; Cesaroni, Claudio; Spogli, Luca; Segarra, Antoni; Altadill, David; Belehaki, Anna; Ventriglia, Vincenzo

TWT-104 C1.1-0060-24

Magnetic field observation of sporadic E layer by the magnetometer (MAG) onboard the S-310-46 sounding rocket
Matsuoka, Ayako; Murata, Naofumi; Kojima, Hirotsugu; Kurita, Satoshi; Higashimura, Kan; Okuda, Ryuichi; Saito, Akinori

TWT-105 C1.1-0061-24

Cross-calibration of IGS TEC using Jason TEC at the Continent-ocean Boundary
Jeon, Woong; Ji, Eun-Young; Moon, Yong-jae; Kwak, Young-Sil

TWT-106 C1.1-0062-24

Pre-Earthquake Observation of the Indonesia Earthquake On 15 December 2017 using Space Borne and Ground Sensor
Mohamad Rizal, Nur Awatiff; Md Yusoff, Siti Harwani

C1.1-0063-24 (WITHDRAWN)

Simulation Study of the Counter-Streaming Beams Filamentation Instability in Transient Luminous Events' Streamers
Jujeczko, Paweł; Blecki, Jan; Mizerski, Krzysztof

C1.1-0064-24 (WITHDRAWN)

Advancing Ionospheric Prediction Over Egypt: A Hybrid Deep Learning Approach Using GNSS-TEC Measurements From a Dense Ground Network
Nooreldeen, Hassan; Mahrous, Ayman; Mahmoud, Ayman; Yossuf, Mohamed; Hussein, Amira; Shaker, A.

Thu, Jul 18, 2024

C1.2 Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras

Main Scientific Organizer: Jee, Geonhwa
Deputy Organizer: Wang, Wenbin

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-108 C1.2-0021-24

Classification of Ionograms in the Polar region by the Vertical Incidence Pulsed Ionospheric Radar at Jang Bogo Station, Antarctica
Back, Junho; Jee, Geonhwa; Kwon, Hyuck-Jin; Kim, Khan-Hyuk; Lee, Changsup; Ham, Young-Bae

TWT-109 C1.2-0022-24

Rocket observations of Alfven waves amplified by the ionospheric feedback instability
Akbari, Hassanali; Pfaff, Robert

TWT-110 C1.2-0023-24

Statistical Study of the Relationship Between Pi2 Waves and Aurora Luminosity Observed at Jang Bogo research station, Antarctica.
Kwon, Jong-Woo; Kwon, Hyuck-Jin; Jee, Geonhwa; Kim, Khan-Hyuk

TWT-111 C1.2-0024-24

Polar Middle Atmospheric Responses to Energetic Electron Precipitation (EEP) Using Numerical Model Simulations
Lee, Ji-Hee; Jee, Geonhwa

TWT-112 C1.2-0025-24

Variations of auroral occurrence with geomagnetic activity (Kp and IMF) and solar cycle at Jang Bogo Station, Antarctica
Cho, Yujin; Jee, Geonhwa; Ham, Young-Bae; Kwon, Hyuck-Jin; Kim, Ji Eun

TWT-113 C1.2-0026-24

Applying non-extensive (q-statistics) approach to auroras
Chernyshov, Alexander; Kozelov, Boris; Mogilevsky, Mikhail

Thu, Jul 18, 2024

C1.3 Atmospheric and Ionospheric Perturbations at Low, Mid, and High Latitudes from Known Sources

Main Scientific Organizer: Kwak, Young-Sil
Deputy Organizer: Kil, Hyosub

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-114 C1.3-0036-24
A Study on Ionospheric Drift Variability in Sporadic E-Layers in the High Latitude Region: A Multifrequency Analysis Using the Canadian Advanced Digital Ionosonde
Nair, Gopika Rajeev; Jayachandran, Thayyil

TWT-115 C1.3-0037-24
Extreme ionospheric GNSS scintillation events over Korean Peninsula on November 5, 2023
Hong, Junseok; Choi, Byung-Kyu; Chung, Jong-Kyun; Lee, Woo Kyoung; Kil, Hyosub

TWT-116 C1.3-0038-24
Irregularities In The Ionosphere Observed Towards The GBAS Stations At Kuala Lumpur International Airport, Malaysia.
Rajwant Singh, Brelveenraj Kaur; Mohd Ali, Aiffah; Abdullah, Mardina; Bahari, Siti Aminah Binti

TWT-117 C1.3-0039-24
Comparative Analysis of Observational Data and Modeling Results regarding Hemispheric Asymmetry during the G3 Geomagnetic Storm of November 3-4, 2021
Kim, Jeongheon; Kwak, Young-Sil; Kwon, Hyuck-Jin; Lee, Changsup; Kam, Hosik; Lee, Jaewook; Yang, Tae-Yong; Jee, Geonhwa

TWT-118 C1.3-0040-24
THE INFLUENCE OF SEISMIC ACTIVITY ON THE HEIGHT HOMOGENEOUS ATMOSPHERE
Alimov, Obid; Zamonov, Malikasror; Murodova, Maknuna

TWT-119 C1.3-0041-24
Study on the Upper Atmospheric Wind Circulation over the Korean Peninsula
Lee, Jaewook; Kwak, Young-Sil; Kam, Hosik; Kim, Jeongheon; Yang, Tae-Yong

C1.3-0042-24 (WITHDRAWN)
Ionospheric perturbations associated with thunderstorm activity over IISc, Bangalore region.
Patil, Akshay; Pawar, Rani; Dharmaraj, Thiyagesan; Pawar, Sambhaji; Nade, Dada; D. Pawar, Sunil

TWT-120 C1.3-0043-24
Analysis of Earthquake-related Ionospheric Anomalies using Deep Learning Techniques
Park, Sun Mie; Choi, Ian; Song, Wonmin

TWT-121 C1.3-0044-24
Effects of Magnetic Field-Aligned Density Ducts on HF Radio Waves in the Top Side of the Ionosphere
Naeem, Danish; Lee, Dong-Hun

TWT-122 C1.3-0045-24
Preliminary results on detecting ionospheric irregularities using VHF specular meteor radar
Kam, Hosik; Kwak, Young-Sil; Yang, Tae-Yong; Lee, Jaewook

TWT-123 C1.3-0046-24
Solar and orbital effects on the terrestrial environment: temperature, ENSO, sea level and ice areas
Zharkova, Valentina; Vasilieva, Irina

Thu, Jul 18, 2024

C1.4 Space Weather and Earth's Atmosphere-Ionosphere

Main Scientific Organizer: Pedatella, Nicholas
Deputy Organizer: Chang, Loren

Room: EC1-313

C1.4-0024-24 11:00 - 11:15
Symmetric and antisymmetric solar tides in the mesosphere and lower thermosphere
Yamazaki, Yosuke; Siddiqui, Tarique

C1.4-0025-24 11:15 - 11:30
Statistical Existence of High-Order Solar Tidal Harmonics in the Earth's Atmosphere
He, Maosheng; Forbes, Jeffrey M; Jacobi, Christoph; Li, Guozhu; Liu, Libo; Stober, Gunter; Wang, Chi

C1.4-0026-24 11:30 - 11:45
Remarkable changes in thermospheric winds and F-region plasma drifts during the QBO disruption of 2019/20
S, Meenakshi; Sundararajan, Sridharan

C1.4-0027-24 11:45 - 12:05 (solicited)
Longitudinal differences in the TEC variability around the EIA crest regions and the role of electrodynamics and coupling processes
Kavutarapu, Venkatesh; Pallamraju, Duggirala

C1.4-0028-24 (WITHDRAWN) 12:05 - 12:20

Variations in meridional thermospheric winds over Southeast Asia during the inclination phase
Nasuha, Siti Syazwani; Sarudin, Idahwati; Abdul Hamid, Nurul Shazana; Omar, Ahmad Fairuz

Coffee Break

Room: EC1-313

C1.4-0029-24 15:00 - 15:15

EZIE-Mag: A low cost magnetometer suite enabling everyone to make science quality observations.
Gjerloev, Jesper; Barnes, Robin; Eisape, Adebayo; Mosavi, Nelofar; Ozturk, Dogacan; Regoli, Leonardo; Cohen, Austin; Fitzner, Jan Erik; Friel, Matthew

C1.4-0030-24 15:15 - 15:30

Introducing a new space weather product derived from Swarm measurements with possible extension to LEO satellites
Constantinescu, Vlad; Blagau, Adrian; Marghitu, Octav; Dunlop, Malcolm; Kervalishvili, Guram

C1.4-0031-24 15:30 - 15:45

The effect of seasonal variation on aerodynamics of SLEO satellite
Yu, Jae Hee; Kim, Jae Gang

C1.4-0032-24 15:45 - 16:00

Assessment of charged particle fluxes within the South Atlantic Anomaly with the HEPD-01 detector on board the CSES-01 satellite
Perinelli, Alessio; Follega, Francesco Maria; Iuppa, Roberto; Battiston, Roberto; Ricci, Leonardo Team: on behalf of the CSES-Limadou collaboration p. 455

C1.4-0033-24 16:00 - 16:15

Space weather effects on the orbit of the CUAVA-1 cubesat
Cairns, Iver; Monger, Anthony; Arudselvan, Vanathy

C1.4-0034-24 16:15 - 16:30

The Low Energy Module (LEM) of the Zirè instrument onboard the NUSES space mission
Nicolaidis, Riccardo Team: on behalf of the NUSES collaboration p. 456

Thu, Jul 18, 2024

C1.4 Space Weather and Earth's Atmosphere-Ionosphere

Main Scientific Organizer: Pedatella, Nicholas
Deputy Organizer: Chang, Loren

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-124 C1.4-0044-24

Smart-Shea 2022 Geomagnetic Cutoff Model
Robinson, Zachary; Smart, Don; Shea, Margaret; Boberg, Paul; Adams, James; Fisher, Jonathan; Fisher, Jonathan; Westlake, Wally; Suzuki, Jeren; Cole, Haley; Smith, Adam; Nonnast, Joseph

TWT-125 C1.4-0045-24

Simultaneous four-channel retrieval of O/OH/CO2/T in the nighttime MLT using SABER/TIMED limb emission observations
Kutepov, Alexander; Panka, Peter A.

TWT-126 C1.4-0046-24

The preliminary results of the equatorial and mid-latitude plasma blobs and bubbles observed by LP onboard the Small Scale Magnetospheric and Ionospheric Plasma Experiment (SNIPE)
Kim, Eojin; Park, Jaeheung; Sohn, Jongdae; Yang, Tae-Yong; Song, Hosub; Lee, Jaejin; Yi, Yu

C1.4-0047-24 (WITHDRAWN)

Examining Equatorial Plasma Bubble Behavior during quiet days in Southeast Asia
Johari, Nur Alia Natasha; Sarudin, Idahwati; Abdul Hamid, Nurul Shazana; Ismail, Nur Azwin

C1.4-0048-24 (WITHDRAWN)

Investigating Equatorial Plasma Bubble Characteristics over South America using ICON Satellite and All-Sky Imager
Yacoub, Moheb; Shiokawa, Kazuo; Abdelwahab, Moataz; Mahrous, Ayman

TWT-129 C1.4-0049-24

New Routine for Calculating the non-LTE CO2 15-micron Cooling of Mesosphere and Lower themosphere in GCMs
Kutepov, Alexander; Feofilov, Artem

Thu, Jul 18, 2024

C2.1 Gravity Waves and Turbulence in the Middle Atmosphere and Lower Ionosphere

Main Scientific Organizer: Wing, Robin
Deputy Organizer: Strelnikov, Boris

Room: EC1-311

C2.1-0001-24 09:00 - 09:20 (solicited)

How well do high-resolution stratosphere-resolving models simulate atmospheric gravity waves?
Wright, Corwin Team: SWANS Team p. 459

C2.1-0002-24 09:20 - 09:40 (solicited)

Observing System Simulation Experiment (OSSE)-inspired approach for evaluating existing satellite estimates of gravity wave momentum flux
Holt, Laura; Wright, Corwin; Alexander, Joan; Bramberger, Martina; Corcos, Milena; Ern, Manfred; Hindley, Neil; Hoffmann, Lars; Plougonven, Riwie; Noble, Phoebe; Polichtchouk, Inna; Stephan, Claudia; van Niekerk, Annelize

C2.1-0003-24 09:40 - 10:00 (solicited)

Three-dimensional modeling of gravity waves and their effects on the middle atmosphere circulation
Kim, Young-Ha; Voelker, Georg Sebastian; Bölöni, Gergely; Zängl, Günther; Achatz, Ulrich

C2.1-0004-24 10:00 - 10:20 (solicited)

Primary and higher order gravity waves in Earth's whole atmosphere system and their relative contribution to momentum budget and variability
Yiğit, Erdal; Medvedev, Alexander S.; Klaassen, Gary; Rowland, Douglas

Coffee Break

Room: EC1-311

C2.1-0005-24 11:00 - 11:20 (solicited)

Wave-induced Instabilities Observed by Sodium Lidar in the Andes
Liu, Alan Z; Yang, Fan

C2.1-0006-24 11:20 - 11:35

Determination of gravity wave parameters from lidar observations
Strelnikova, Irina; Baumgarten, Gerd; Wing, Robin; Kunze, Markus; Gerding, Michael

C2.1-0007-24 11:35 - 11:50

Observations of Gravity Wave Interaction with the Stratospheric Polar Vortex
Wing, Robin; Strelnikova, Irina; Gerding, Michael; Franco-Diaz, Eframir; Holt, Laura; Dornbrack, Andreas; Baumgarten, Gerd

C2.1-0008-24 11:50 - 12:05

Investigating Spectral Characteristics of Atmospheric Gravity Waves From Lidar Observations
Mossad, Mohamed; Strelnikova, Irina; Wing, Robin; Baumgarten, Gerd; Fiedler, Jens; Gerding, Michael; Franco-Diaz, Eframir

C2.1-0009-24 12:05 - 12:20

Case Study: Summer convective gravity wave event over Europe characterized by lidars, satellite and ECMWF
Franco-Diaz, Eframir; Holt, Laura; Gerding, Michael; Wing, Robin; Strelnikova, Irina; Baumgarten, Gerd; Noble, Phoebe; Wright, Corwin; Hauchecorne, Alain; Keckhut, Philippe; Khaykin, Sergey

Lunch Break

Room: EC1-311

C2.1-0010-24 15:00 - 15:15

MATS satellite mission: First large-scale and 3D images of wave structures in the MLT
Linder, Björn; Megner, Linda; Murtagh, Donal; Krasauskas, Lukas; Christensen, Ole Martin; Gumbel, Jorg; Ivchenko, Nickolay

C2.1-0011-24 (WITHDRAWN) 15:15 - 15:30

Complex shapes of gravity wave phase fronts and possible wave-wave interactions
Malik, Manzoor Ahmad; Bhat, Aashiq Hussain; Ganaie, Bilal Ahmad; Rather, Mohammad Rafeeq; Thokuluwa, Ramkumar

C2.1-0012-24 15:30 - 15:45

New turbulence climatology for high latitude mesosphere measured in-situ since 1990
Strelnikov, Boris; Szewczyk, Artur; Rapp, Markus; Lübken, Franz-Josef; Staszak, Tristan; Baumgarten, Gerd; Wing, Robin

C2.1-0013-24 15:45 - 16:00

Statistical correlations between geomagnetic activity and high-latitude TIDs investigated with the Tromso Dynasode
Negrea, Catalin; Zabotin, Nikolai; Echim, Marius; Rietveld, Michael

C2.1-0014-24 16:00 - 16:15

Investigation of mesospheric small-scale gravity wave characteristics over four Antarctic stations
Pautet, Pierre-Dominique; Zhao, Yucheng; Brown, Anastasia; Haehnel, Max; Waite, Connor; Tucker, Dallin; Kroeber, Elijah; Murphy, Damian; Moffat-Griffin, Tracy; Taylor, Michael

C2.1-0015-24 (WITHDRAWN) 16:15 - 16:30

The Role of Gravity Waves in the Mesosphere-Lower-Thermosphere (MLT) Inversions over low-latitude (3-15 N)
Lingerew, Chalachew; Raju, Jaya Prakash

Coffee Break

Room: EC1-311

C2.1-0016-24 17:00 - 17:15

Interaction between Planetary Waves and Gravity Waves in the Middle Atmosphere
Chun, Hye-Yeong; Yoo, Ji-Hee; Song, In-Sun; Song, Byeong-Gwon

C2.1-0017-24 (WITHDRAWN) 17:15 - 17:35 (solicited)

Gravity wave dynamics in the middle atmosphere modelled with the Icosahedral Nonhydrostatic (ICON) model
Stephan, Claudia

C2.1-0018-24 17:35 - 17:50

The Neutral Air Density revolutions in the Middle Atmosphere During 2021 SSW
Yang, Junfeng

C2.1-0019-24 17:50 - 18:05

Characterizing Gravity Waves in the Tropical Lower Atmosphere: Insights from ERA5 Reanalysis above La Reunion (21°S, 55°E)
Chane Ming, Fabrice; Trémoulu, Samuel; Hauchecorne, Alain; Keckhut, Philippe; Khaykin, Sergey; Bellisario, Christophe; Simoneau, Pierre; Listowski, Constantino

Thu, Jul 18, 2024

C2.1 Gravity Waves and Turbulence in the Middle Atmosphere and Lower Ionosphere

Main Scientific Organizer: Wing, Robin
Deputy Organizer: Strelnikov, Boris

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-130 C2.1-0020-24

Investigation of short-period gravity wave variabilities from Mesospheric Temperature Mapper (MTM) observation over King Sejong Station, Antarctica
Kim, Jeong-Han; Kim, Ji Eun; Kam, Hosik; Jee, Geonhwa; Lee, Changsup; Song, Byeong-Gwon Team: Polar Upper Atmosphere Research p. 457

TWT-131 C2.1-0021-24

In Situ Generation of Planetary Waves in the Mesosphere by Zonally Asymmetric Gravity Wave Drag: A Revisit
Yoo, Ji-Hee; Chun, Hye-Yeong; Song, In-Sun

TWT-132 C2.1-0022-24

Characteristics of mesospheric gravity waves over the Korean Peninsula using specular meteor radar
Kam, Hosik; Kwak, Young-Sil; Song, In-Sun; Yang, Tae-Yong; Song, Byeong-Gwon; Kim, Jeongheon; Lee, Jaewook

Thu, Jul 18, 2024

C3.2 Planetary Upper Atmospheres, Ionospheres and Magnetospheres

Main Scientific Organizer: Haider, Syed A.
Deputy Organizer: Kuroda, Takeshi

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-133 C3.2-0030-24

Neutral wind induced plasma transport in regions of magnetic anomalies at Mars
Majeed, Tariq; Bougher, Stephen; Haider, Syed A.; Morschhauser, Achim

TWT-134 C3.2-0031-24

An Unexpected Double-peak Structure in Diurnal Variation of Martian Upper
Le, Huijun; Liu, Libo; Chen, Yiding; Zhang, Ruilong

TWT-135 C3.2-0032-24

Joint Observations of Tianwen-1 and MAVEN on the Martian Bow Shock
Cheng, Long; Wang, Yuming; Lillis, Robert; Ma, Yingjuan; Halekas, Jasper; Langlais, Benoit; Mittelholz, Anna; Xu, Shaosui; Johnson, Catherine; Mitchell, David; Su, Zhenpeng; Zhang, Tielong; Zhang, Aibing; Espley, Jared; Eparvier, Francis G.; Curry, Shannon

TWT-136 C3.2-0033-24

Statistical study of SLAMS at the Martian foreshock
Wong Chan, Tsz Kiu; Karlsson, Tomas; Bergman, Sofia; Trollvik, Henriette

Thu, Jul 18, 2024

C4.2 Development of first-principles and empirical models related to the COSPAR International Reference Atmosphere

Main Scientific Organizer: Bruinsma, Sean
Deputy Organizer: Pilinski, Marcin

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-137 C4.2-0012-24

Short-time calibration for the NRLMSISE00 model below 200 km altitude based on retrieved densities from precise orbit data of the re-entry objects
Yuan, Ying-Ji; Zhang, Ming-Jiang; Wang, Hong Bo; Zhang, Wei; Xiong, Jian Ning

Thu, Jul 18, 2024

D1.1 Acceleration and Transport of Energetic Particles in the Heliosphere, the Interstellar Medium, and Astrospheres

Main Scientific Organizer: Gil, Agnieszka
Deputy Organizer: Engelbrecht, Nicholas Eugene

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-138 D1.1-0033-24

Theoretical investigation of Galactic Cosmic Rays Variation based on the new index of the Power Spectrum Density of the Interplanetary Magnetic Field Turbulence.
Siluszyk, Marek; Iskra, Krzysztof

TWT-139 D1.1-0034-24

New index of the Power Spectrum Density of the Interplanetary Magnetic Field Turbulence in relation with the Rigidity Spectrum of Galactic Cosmic Rays Variation in period 1968 -2020
Iskra, Krzysztof; Siluszyk, Marek

TWT-140 D1.1-0035-24

Modeling of the cosmic rays recurrence during the ascending phase of the solar cycle 25
Gil, Agnieszka; Modzelewska, Renata; Iskra, Krzysztof

TWT-141 D1.1-0036-24

Quantifying Forbush Decrease with a Numerical Model Evaluation
Della Torre, Stefano; Cavallotto, Giovanni; La Vacca, Giuseppe; Gervasi, Massimo

TWT-142 D1.1-0037-24

A numerical study on cosmic proton and electron fluxes decreases in 2017 observed by AMS 02
Yang, Yadi; Luo, Xi; Song, Xiaojian; Xu, Weiwei

TWT-143 D1.1-0038-24

SOLAR ORBITER EPD MEASUREMENTS OF ANOMALOUS COSMIC RAY IN THE INNER HELIOSPHERE FROM 0.3 AU TO 1 AU
Xu, Zigong; Wimmer-Schweingruber, Robert; Kühl, Patrick; Berger, Lars; Pacheco, Daniel; Kollhoff, Alexander; Yang, Liu; Boettcher, Stephan; Gomez-Herrero, Raul; Rodriguez-Pacheco, Javier; Ho, George; Mason, Glenn M.; Cohen, Christina; Leske, Richard

TWT-144 D1.1-0039-24

Spectral Properties and Spectral Variability of 3He-rich Solar Energetic Particle Events
Hart, Samuel; Dayeh, Maher A.; Bucik, Radoslav

TWT-145 D1.1-0040-24

Observations of Energetic Electrons in the HET Instrument aboard Parker Solar Probe during Three Large Solar Energetic Particle Events from 2021 to 2023
Labrador, Allan; Mitchell, Grant; Cohen, Christina; Christian, Eric; De Nolfo, Georgia; Leske, Richard; McComas, David; Rankin, Jamie; Schwadron, Nathan; Szalay, Jamey; Wiedenbeck, Mark

TWT-146 D1.1-0041-24

Solar Energetic Particle Observations and Modeling Results for the September 5, 2022, extreme solar event
Kouloumvakos, Athanasios; Wijsen, Nicolas; Hill, Matthew; Afanasiev, Alexandr; Lario, David; Jebaraj, Immanuel; Mason, Glenn M.; Ho, George; Giacalone, Joe; Li, Gang; Ding, Zheyi; Chen, Xiaohang; Vourlidas, Angelos; Paouris, Evangelos; Riley, Pete; Linker, Jon; Cohen, Christina; Vainio, Rami; Rouillard, Alexis; McComas, David; Rodriguez-Pacheco, Javier; McNutt, Ralph; Mitchell, Donald; Kühl, Patrick; Wimmer-Schweingruber, Robert

TWT-147 D1.1-0042-24

The alignment of STEREO-A and Earth: A unique opportunity to improve solar energetic proton forecasting capabilities
Heber, Bernd; Jensen, Stefan; Hörlöck, Malte; Kollhoff, Alexander; Kühl, Patrick; Posner, Arik; Malandraki, Olga; Berdermann, Jens; Sierks, Holger; Martens, Janna; Banys, Daniela; Dröge, Henrik

TWT-148 D1.1-0043-24

Numerical Simulation of Galactic Cosmic-Rays during the Heliopause Crossing for Voyager 2
Guo, Xiaocheng; Wang, Chi

TWT-149 D1.1-0044-24

MHD Simulations of the Effect of Anomalous Cosmic-Rays on the Rayleigh-Taylor Instability at the Heliopause
Zhou, Yucheng; Guo, Xiaocheng

TWT-150 D1.1-0045-24

Drift Motion of Energetic Charged Particles Subject to Turbulence near the Heliospheric Current Sheet
Promfu, Tatphicha; Ruffolo, David; Chuychai, Piyanate; Sáiz, Alejandro

TWT-151 D1.1-0046-24

Radial evolution of quiet-time superhalo electrons
Yang, Liu; Gu, Chaoran; Heidrich-Meisner, Verena; Wang, Linghua; Kollhoff, Alexander; Wimmer-Schweingruber, Robert

TWT-152 D1.1-0047-24

Charge particles acceleration in the near resonance regime
Shkevov, Rumen; ***Mishev, Alexander***; Mishev, Alexander; Zolnikova, Nadezhda; Mikhailovskaya, Ludmila

TWT-153 D1.1-0048-24

Cosmic ray transport in compressible turbulence
Yan, Huirong

Thu, Jul 18, 2024

D1.2 Large Scale Structure of Heliosphere and its Physical Drivers

Main Scientific Organizer: Opher, Merav
Deputy Organizer: Dialynas, Konstantinos

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-154 D1.2-0022-24

Science opportunities for IMAP-Lo observations of interstellar neutral atoms
Kubiak, Marzena A.; Bzowski, Maciej; Schwadron, Nathan; Möbius, Eberhard; Swaczyna, Paweł

TWT-155 D1.2-0023-24

Theseus: an Advanced Method for Rendering IBEX-Hi ENA Sky Maps
Reisenfeld, Dan; Osthus, Dave; Weaver, Brian; Janzen, Paul; Zirnstein, Eric

Thu, Jul 18, 2024

D1.3 Magneto-plasma Structures, Streams and Flows in the Heliosphere

Main Scientific Organizer: Khabarova, Olga
Deputy Organizer: Malandraki, Olga

Room: CON-103

D1.3-0001-24 11:00 - 11:30 (solicited)

Parker Solar Probe Observations of Multiple Subscale Magnetic Reconnection Embedded inside a Large-Scale Heliospheric Current Sheet Reconnection Exhaust
Phan, Tai; Drake, James; Larson, Davin; Oieroset, Marit; Bale, Stuart; Lavraud, Benoit; Eriksson, Stefan; Livi, Roberto; Romeo, Orlando; Whittlesey, Phyllis; Halekas, Jasper; Rahmati, Ali; Pulupa, Marc; Szabo, Adam; Koval, Andriy; Kasper, Justin; Stevens, Michael; Desai, Mihir; Raouafi, Nour E.; Yin, Zhi Yu

D1.3-0002-24 (WITHDRAWN) 11:30 - 11:45

Solar wind current sheets from 0.2 to 5 au: properties, origin and magnetic reconnection
Vasko, Ivan; Alimov, Kazbek; Phan, Tai; Mozer, Forrest; Artemyev, Anton

D1.3-0003-24 11:45 - 12:00

Magnetic field and ion velocity spectra in the solar wind around the ion-scale spectral break
Safrankova, Jana; Franci, Luca; Nemecek, Zdenek; Nemec, Frantisek; Park, Byeongseon; Pitna, Alexander

D1.3-0004-24 12:00 - 12:15

Acceleration at interplanetary shocks: Solar Orbiter burst-mode observations of particles and turbulence
Park, Byeongseon; Pitna, Alexander; Safrankova, Jana; Nemecek, Zdenek; Verscharen, Daniel; Coburn, Jesse

D1.3-0005-24 12:15 - 12:30

Interplanetary shock as a source of upstream and downstream waves
Goncharov, Oleksandr; Safrankova, Jana; Nemecek, Zdenek; Koval, Andriy; Szabo, Adam

Coffee Break

Room: CON-103

D1.3-0006-24 15:00 - 15:15

Which Solar Coronal Holes are the Most Geoeffective? - A Study on their Related HSSs, HCS, and embedded CMEs in Solar Cycle 23 and 24.
Hofmeister, Stefan; Heinemann, Stephan; Kay, Christina; Mahajan, Sushant; Koukras, Alexandros; Allen, Robert

D1.3-0007-24 15:15 - 15:45 (solicited)

Dynamics of magnetic field and charged particles in solar flares with microwave imaging spectroscopy
Fleishman, Gregory

D1.3-0008-24 15:45 - 16:00

Global Modelling of the September 2022 'Labour Day' CME and its Heliospheric Impact
Palmerio, Erika; Linker, Jon; Downs, Cooper; Torok, Tibor; Riley, Pete; Caplan, Ronald; Hess, Phillip; Linton, Mark; Feller, Alex; Hirzberger, Johann; Orozco Suárez, David; Solanki, Sami; Strecker, Hanna; Valori, Gherardo

D1.3-0009-24 16:00 - 16:15

Inferring turbulence property from EUV intensity measurements in solar flare current sheets: implications of an inhomogenous system
Li, Gang; Xie, Xiaoyan; Reeves, Kathy; Gou, Tingyu

D1.3-0010-24 16:15 - 16:30

Dynamics of turbulent properties in large-scale solar wind structures on the path from the Sun to Earth
Riazantseva, Maria; Rakhmanova, Liudmila; Volodin, Igor; Khokhlachev, Alexander; Zastenker, Georgy; Yermolaev, Yuri; Lodkina, Irina

Lunch Break

Room: CON-103

D1.3-0011-24 17:00 - 17:15

Solar wind flows across the solar activity cycle, connectivity and plasma signatures on and off the ecliptic plane
Pinto, Rui; Rouillard, Alexis; Indurain, Mikel

D1.3-0012-24 17:15 - 17:30

Near-Sun In Situ and Remote-sensing Observations of a Coronal Mass Ejection and its Effect on the Heliospheric Current Sheet
Romeo, Orlando; Braga, Carlos Roberto; Badman, Sam; Larson, Davin; Stevens, Michael; Huang, Jia; Phan, Tai; Rahmati, Ali; Livi, Roberto; Al Nussirat, Samer; Whittlesey, Phyllis; Szabo, Adam; Klein, Kristopher; Niembro, Tatiana; Paulson, Kristoff; Verniero, Jaye; Lario, David; Raouafi, Nour E.; Ervin, Tamar; Halekas, Jasper; Pulupa, Marc; Bale, Stuart; Linton, Mark

D1.3-0013-24 17:30 - 17:45

Reconnection-driven agyrotropic electron distributions in turbulent plasmas and the role of electron velocity shears
Del Sarto, Daniele; Franci, Luca; Papini, Emanuele; Trotta, Domenico

D1.3-0014-24 17:45 - 18:00

In-situ study of an interplanetary shock propagating from 0.07 to 0.7 AU
Trotta, Domenico; Franci, Luca; Larosa, Andrea; Horbury, Timothy; Matteini, Lorenzo; Hietala, Heli; Blanco-Cano, Xochitl; Chen, Christopher; Zhao, Lingling; Zank, Gary; Cohen, Christina; Bale, Stuart; Laker, Ronan; Fargette, Naïs; Valentini, Francesco; Khotyaintsev, Yuri; Kieokaew, Rungployphan; Raouafi, Nour E.; Davies, Emma; Vainio, Rami; Dresing, Nina; Kilpua, Emilia; Karlsson, Tomas; Owen, Christopher; Wimmer-Schweingruber, Robert

D1.3-0015-24 18:00 - 18:15

Observations and Modeling of High Mach Number Oblique Shocks in the Inner Heliosphere
Ofman, Leon; Boardsen, Scott; Wilson, Lynn; Kieokaew, Rungployphan; Jian, Lan; Mostafavi, Parisa; Verniero, Jaye; Larson, Davin; Livi, Roberto; Mcmanus, Michael; Rahmati, Ali; Stevens, Michael; Owen, Christopher

D1.3-0016-24 18:15 - 18:30

Turbulent dissipation in collisionless plasmas: insights from numerical simulations.
Papini, Emanuele; Hellinger, Petr; Franci, Luca

Coffee Break

Room: CON-103

D1.3-0017-24 09:00 - 09:15

High Helium concentrations in CMEs
Starkey, Michael; Fuselier, Stephen; Dayeh, Maher A.

D1.3-0018-24 09:15 - 09:30

Relation between properties of spectra of the interplanetary magnetic field fluctuations and the current sheets occurrence rate
Treves, Timofei; Riazantseva, Maria; Khabarova, Olga

D1.3-0019-24 (WITHDRAWN) 09:30 - 09:45

Employing advanced flux rope CME models in EUHFORIA to study complex CME events
Maharana, Anwesha; Linan, Luis; Poedts, Stefaan; Magdalenic, Jasmina

D1.3-0020-24 09:45 - 10:00

The anti-correlated rise and fall of the in situ averaged charge states of Fe and O in the solar wind
Gu, Chaoran; Heidrich-Meisner, Verena; Wimmer-Schweingruber, Robert

D1.3-0021-24 10:00 - 10:15

ICMEs and CIRs registered in the years 2018-2023 and their geoeffectiveness
Sanchez-Garcia, Elsa; Gonzalez-Esparza, Americo; Corona-Romero, Pedro; González, Xavier; Mejia-Ambriz, Julio-Cesar; Gatica-Acevedo, Victor Jose; Castellanos-Velazco, Carlos I.

D1.3-0022-24 10:15 - 10:30

Polytropic analysis of large-scale compressive fluctuations in the solar wind using Solar Orbiter data.
Ioannou, Charalambos; Nicolaou, Georgios; Owen, Christopher J.; Verscharen, Daniel; Franci, Luca

Thu, Jul 18, 2024

D1.3 Magneto-plasma Structures, Streams and Flows in the Heliosphere

Main Scientific Organizer: Khabarova, Olga
Deputy Organizer: Malandraki, Olga

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-156 D1.3-0036-24

Properties of current sheets in interplanetary coronal mass ejections and stream interaction regions
Treves, Timofei; Khabarova, Olga; Kislov, Roman

TWT-157 D1.3-0037-24

A connection of neutral magnetic lines with formation and stability of solar magnetic tornadoes
Nikitin, Ilia; Blumenau, Mark; Vorobev, Dmitrii

TWT-158 D1.3-0038-24

An analysis of observed deviations of radial profiles of the solar wind speed and temperature from theoretical predictions
Antsiferova, Uliana; Khabarova, Olga; Kislov, Roman

TWT-159 D1.3-0039-24

SINP MSU Unified Interplanetary Coronal Mass Ejection Catalog
Shiryaev, Anton; ***Kaportseva, Ksenia***; Kaportseva, Ksenia; Shugay, Yulia; Kalegaev, Vladimir

TWT-160 D1.3-0040-24

COMPARISON OF THE MAGNETIC MOMENT OF THE SUN AND THE HELIOSPHERIC CURRENT SHEET
Kislov, Roman

TWT-161 D1.3-0041-24

Polytropic analysis of interplanetary shocks observed by Solar Orbiter
Ioannou, Charalambos; Nicolaou, Georgios; Owen, Christopher J.; Trotta, Domenico

TWT-162 D1.3-0042-24

Case studies of properties of high-latitude coronal mass ejections observed by the Ulysses spacecraft at 2-3 AU
Samara, Nuran; Reshef, Hadar; Tishler, Noam; Khabarova, Olga; Price, Colin

TWT-163 D1.3-0043-24

A POSSIBLE MECHANISM OF FORMATION OF PLASMA DISTRIBUTIONS IN MAGNETIC FLUX TUBES
Malova, Helmi; Popov, Viktor; Antonova, Elizaveta; Zelenyi, Lev

TWT-164 D1.3-0044-24

Unexpected energetic particle observations near the Sun by Parker Solar Probe and Solar Orbiter
Cohen, Christina; Malandraki, Olga; Giacalone, Joe; Mitchell, John; Chhiber, Rohit; McComas, David; Rodriguez-Pacheco, Javier; Wimmer-Schweingruber, Robert; Ho, George; Janitzek, Nils P.; Desai, Mihir

Thu, Jul 18, 2024

D1.5 Turbulence in the Heliosphere from the Solar Corona to the Very Local Interstellar Medium

Main Scientific Organizer: Fraternale, Federico

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-165 D1.5-0011-24

1/f Noise in Synthetic Data and 1 au Solar Wind Observations
Wang, Jiaming; Matthaeus, William; Pecora, Francesco

TWT-166 D1.5-0012-24

On the properties of the Alfven transition zone separating the solar corona and the solar wind
Chhiber, Rohit; Pecora, Francesco; Usmanov, Arcadi; Roy, Sohom; Matthaeus, William; Cranmer, Steven; Goldstein, Melvyn

TWT-167 D1.5-0013-24

The turbulence-driven instabilities in the flaring coronal loop helical magnetic/plasma structure evolution
Zhu, Bojing

TWT-168 D1.5-0014-24

Wave activity at switchback boundaries in the young solar wind
Choi, Kyung-Eun; Agapitov, Oleksiy; Bizien, Nina; Froment, Clara; Dudok De Wit, Thierry

Thu, Jul 18, 2024

D1.6 Understanding and Predicting Solar Energetic Particle Events Across the Heliosphere

Main Scientific Organizer: Wijsen, Nicolas

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-169 D1.6-0021-24

Modelling two energetic storm particle events observed by Solar Orbiter
Ding, Zheyi; Li, Gang; Mason, Glenn M.; Poedts, Stefaan; Kouloumvakos, Athanasios; Ho, George; Wijsen, Nicolas; Wimmer-Schweingruber, Robert; Rodriguez-Pacheco, Javier

TWT-170 D1.6-0022-24

Modelling solar energetic particles: insights and challenges from PARADISE and PiC Simulations
Wijsen, Nicolas; Bacchini, Fabio; Poedts, Stefaan

TWT-171 D1.6-0023-24

Investigating High Energy Solar Energetic Particles using a miniature ultra-sensitive FUV spectrometer in future Heliophysics Space explorations
Hosseini, Sona; ***Vourlidas, Angelos***; Vourlidas, Angelos; Strachan, Leonard; Paxton, Larry; Nikzad, Shouleh

D1.6-0024-24 (WITHDRAWN)

The Compact Electron Proton Spectrometer – A space weather early warning instrument based on a CdTe hybrid pixel detector
George, Stuart; Campbell-Ricketts, Thomas; Fry, Dan; Kroupa, Martin; Whitman, Kathryn; Semones, Edward J.

Thu, Jul 18, 2024

D1.7 Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays

Main Scientific Organizer: Ruffolo, David
Deputy Organizer: Munakata, Kazuoki

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-173 D1.7-0018-24

Simulations of Capture-Gated Neutron Spectroscopy for Measuring the Cosmic Neutron Energy Spectrum on Earth's Surface
Park, Hyeoungwoo; Kang, Sinchul; Kim, Jungho; Kim, Joong Hyun; Park, Hyeonseo; Yoon, Young Soo

TWT-174 D1.7-0019-24

Development of cosmic neutron spectrometer using He-3 detectors
Yoon, Young Soo; Kang, Sinchul; Kim, Joong Hyun; Kim, Jungho; Park, Hyeonseo; Park, Hyeoungwoo

TWT-175 D1.7-0020-24

Monte Carlo Simulation of New Boron Trifluoride Proportional Tube for the NM64 Neutron Monitor
Duangjai, Budsayarat; Nuntiyakul, Waraporn; Seripienlert, Achara; Pagwhan, Audcharaporn; Khamphakdee, Sidarat; Sáiz, Alejandro; Ruffolo, David; Evenson, Paul

TWT-176 D1.7-0021-24

Neutron Propagation Time Distribution Measured by Various Neutron Monitor Counters Relative to Direction-Tracked Charged Atmospheric Secondaries
Amratisha, Koth; Chaiwongkhot, Kullapha; Puprasit, Kunlanan; Lakronwat, Jidapa; Manuthasna, Shariff; Janmaneeporn, Achariyaporn; Ruffolo, David

TWT-177 D1.7-0022-24

Tracking the heliospheric modulation of cosmic rays to correct albedo epithermal neutrons for hydrological research
Hertle, Lasse; Sato, Tatsuhiko; Zacharias, Steffen; Schrön, Martin

TWT-178 D1.7-0023-24

The updated CRAC:CRII and CRAC:DOMO models: applications and verification
Mishev, Alexander; Koldobskiy, Sergey; Larsen, Nicholas; Usoskin, Ilya

TWT-179 D1.7-0024-24

Exploring the Differential Spectra of Galactic, Solar, and Anomalous Cosmic Rays: Theoretical Insights into Atmospheric Penetration
Velinov, Peter; Mishev, Alexander; Asenovski, Simeon; Mateev, Lachezar

TWT-180 D1.7-0025-24

Cosmic ray intensity variation of Forbush decrease dependent on propagation direction of interplanetary coronal mass ejection
Oh, Suyeon; Jung, Jongil

TWT-181 D1.7-0026-24

Time profile and anisotropy of the 2021 November 4 Forbush decrease: relating ICME characteristics to space- and ground-based particle observations
Benella, Simone; Laurenza, Monica Team: coauthors: p. 449

TWT-182 D1.7-0027-24

Study on the SEP events and their association with ground level enhancements using ACE/SIS data
Jung, Jongil; Oh, Suyeon; Kwak, Young-Sil; Yi, Yu

Thu, Jul 18, 2024

D2.2-E3.2 Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects

Main Scientific Organizer: Dumbovic, Mateja
Deputy Organizer: Janvier, Miho

CMEs, shocks and SEPs

Room: CON-101

D2.2-0009-24 11:00 - 11:15

X-ray Observations of a Coronal Mass Ejection (CME) Core with Solar Orbiter/STIX
Hayes, Laura; Krucker, Sam; Collier, Hannah; Ryan, Daniel

D2.2-0010-24 11:15 - 11:30

Understanding our capabilities in observing and modelling Coronal Mass Ejections
Verbeke, Christine; Mierla, Marilena; Mays, M. Leila; Kay, Christina; Dumbovic, Mateja; Riley, Pete; Temmer, Manuela; Palmerio, Erika; Paouris, Evangelos; Scolini, Camilla; Balmaceda, Laura; Cremades, Hebe

D2.2-0011-24 11:30 - 12:00 (solicited)

The variability and evolution of interplanetary coronal mass ejections
Davies, Emma

D2.2-0012-24 12:00 - 12:30 (solicited)

Understanding the Origin of Iron-rich Gradual Solar Energetic Particle Events
Nitta, Nariaki; Jin, Meng; Cohen, Christina

Coffee Break

HMF and solar wind

Room: CON-101

D2.2-0013-24 (WITHDRAWN) 15:00 - 15:15

Activities of Solar Orbiter's Heavy Ion Sensor Science Team
Alterman, Benjamin L.; Livi, Stefano; Dewey, Ryan; Lepri, Susan; Raines, Jim; Spitzer, Sarah A.; Trotta, Domenico; Haggerty, Colby; Allegrini, Frederic; Ho, George; Ogasawara, Keiichi; Phillips, Mark; Nicolaou, Georgios; Owen, Christopher; Verscharen, Daniel; Fedorov, Andrei; Louarn, Philippe; Bruno, Roberto; D'amicis, Raffaella; Ploof, Keeling; Galvin, Antoinette; Kistler, Lynn; Wurz, Peter; Rivera, Yeimy; Burgess, David; Horbury, Tim; Hietala, Heli; Stubbs, Timothy; Delano, Kevin; Kucharek, Harald

D2.2-0014-24 15:15 - 15:45 (solicited)

Advances in Analytic Interplanetary CME and HSS Modeling
Kay, Christina; Nieves-Chinchilla, Teresa; Hofmeister, Stefan; Palmerio, Erika; Ledvina, Vincent

D2.2-0015-24 15:45 - 16:00

The Smiley Face Event: Formation Mechanism of CIRs
Milošić, Daniel; Temmer, Manuela; Heinemann, Stephan; Hofmeister, Stefan

D2.2-0016-24 16:00 - 16:30 (solicited)

Coronal Holes and the Heliospheric Open Magnetic Flux
Heinemann, Stephan

Lunch Break

HMF and solar wind
Room: CON-101

D2.2-0017-24 17:00 - 17:30 (solicited)
Time-dependent MHD simulations of fast solar wind flows throughout the heliosphere
Samara, Evangelia; Provornikova, Elena; Arge, Charles; Mccubbin, Andrew; Merkin, Viacheslav

D2.2-0018-24 17:30 - 17:45
Toward a Consensus for Multi-Sourced Photospheric Magnetic Field Cross-Calibrations
Liu, Yang; Arge, Charles; Bertello, Luca; Hoeksema, J. Todd; Jones, Shaela; Petrie, Gordon; Pevtsov, Alexei

D2.2-0019-24 17:45 - 18:00
The effect of updated magnetograms on the dynamic Icarus solar wind simulations
Baratashvili, Tinatin; Poedts, Stefaan

D2.2-0020-24 18:00 - 18:15
Effects of Localized Heating above the Heliobase on the Solar Wind
Westrich, Lukas; Fichtner, Horst; Shergelashvili, Bidzina

D2.2-0021-24 (WITHDRAWN) 18:15 - 18:30
Characterizing the Origin of the Alfvenic Slow Wind by using Cross Helicity as a Metric of Solar Wind Heating at Acceleration
Alterman, Benjamin L.; D'amicis, Raffaella

Coffee Break

space weather at planets and exoplanets
Room: CON-101

D2.2-0022-24 09:00 - 09:30 (solicited)
The evolution of Interplanetary Coronal Mass Ejections in the heliosphere and their impacts on Mars
Wang, Yuming; Chi, Yutian; Yu, Bingkun; Shen, Chenglong

D2.2-0023-24 09:30 - 09:45
The Impact of Radial Interplanetary Magnetic Field (IMF) Events on the Mars Magnetosphere and Ionosphere; A Multi-Spacecraft Analysis
Turner, Anna; Fowler, Christopher; Sanchez-Cano, Beatriz; Meggi, Dikshita

D2.2-0024-24 09:45 - 10:15 (solicited)
An Overview of Space Weather Activity at Mars During the Past Two Solar Cycles
Lee, Christina O.

D2.2-0025-24 (WITHDRAWN) 10:15 - 10:30
Over 20-year global magnetohydrodynamic simulation of Earth's magnetosphere
Honkonen, Ilja; Van de Kamp, Max; Hoppe, Theresa; Kauristie, Kirsti

Thu, Jul 18, 2024

D2.2-E3.2 Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects

Main Scientific Organizer: Dumbovic, Mateja
Deputy Organizer: Janvier, Miho

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-183 D2.2-0035-24
EUV, UV & X-ray Irradiance Variability over Solar Cycle 24 and Their Impacts on Earth's Climate and Space Weather
Rangaiah, Kariyappa; Masuda, Satoshi; Kusano, Kanya; Imada, Shinsuke; Zender, Joe; Damé, Luc; DeLuca, Edward

TWT-184 D2.2-0036-24
Radial Evolution of the Solar Wind Ions Observed by Parker Solar Probe
Kim, Hee-Eun; Lee, Ensang; Parks, George

TWT-185 D2.2-0037-24
Switchbacks and Associated Magnetic Holes Observed near the Alfvén Critical Surface
Rasca, Anthony; Farrell, William; Gruesbeck, Jacob; Macdowall, Robert; Bale, Stuart; Kasper, Justin

Thu, Jul 18, 2024

D2.3-E3.3 Magnetic Reconnection in the Turbulent Plasmas - From the Sun through the Heliosphere to Stars and Galaxies

Main Scientific Organizer: Büchner, Jörg
Deputy Organizer: Hoshino, Masahiro

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-186 D2.3-0037-24
QUASI-TWO-DIMENSIONALITY OF THREE-DIMENSIONAL, MAGNETICALLY DOMINATED, DECAYING TURBULENCE
Dwivedi, Shreya; Anandavijayan, Chandranathan; Bhat, Pallavi

Thu, Jul 18, 2024

D2.5-E3.5 Impact of the Inhomogeneous Solar Corona and Solar wind on CME Evolution

Main Scientific Organizer: Jang, Soojeong
Deputy Organizer: Jin, Meng

Innovation in Solar Corona Studies

Chair: Jang, Soojeong
Room: CON-102

D2.5-0001-24 09:00 - 09:30 (solicited)
Influence of the ambient solar wind on the propagation of CMEs
Temmer, Manuela

D2.5-0002-24 09:30 - 09:45
Tomographic Inversion of the Coronal Electron Density, Temperature and Vector Magnetic Field
Kramar, Maxim; Lin, Haosheng

D2.5-0003-24 09:45 - 10:00
Three-dimensional Coronal Electron Density Reconstruction with a Deep Learning Method
Kwon, Ryun Young; Jang, Soojeong

D2.5-0004-24 10:00 - 10:15
Total Brightness Profiles of Coronal Structures studied with Parker Solar Probe/WISPR and Solar Orbiter/METIS
Cappello, Greta M.; Lienhart, Andrea; Temmer, Manuela; Nisticò, Giuseppe; Howard, Russell A.; Vourlidas, Angelos; Bothmer, Volker

D2.5-0005-24 10:15 - 10:30
Exploring Source Regions of Solar Energetic Particles examined by AI-Generated Synchronic Potential Field Source Surface Model
Park, Jinhye; Jeong, Hyun-Jin; Moon, Yong-jae

Coffee Break

Initiation and Propagation of CMEs in Modeling

Chair: Kwon, Ryun Young
Room: CON-102

D2.5-0006-24 11:00 - 11:20 (solicited)
Sun to Earth Evolution of the Solar Wind and Coronal Mass Ejections via Numerical Modeling
Sachdeva, Nishtha; Toth, Gabor; Manchester IV, Ward; Huang, Zhenguang; Van der Holst, Bart; Jivani, Aniket; Chen, Hongfan

D2.5-0007-24 11:20 - 11:35
High-resolution MHD simulation of interplanetary propagation of September 5, 2022 CME event
Provornikova, Elena; Mccubbin, Andrew; Braga, Carlos Roberto; Samara, Evangelia; Gibson, Sarah; Merkin, Viacheslav

D2.5-0008-24 11:35 - 11:50
Quantifying and Visualizing the Magnetic Helicity of Coronal Mass Ejections in the Interplanetary Space
Al-Haddad, Nada; Berger, Mitchell A.; Regnault, Florian

D2.5-0009-24 11:50 - 12:05
Analysis of multiple CMEs occurring between 9 -11 December 2022
Chifu, Iulia; Bothmer, Volker

D2.5-0010-24 12:05 - 12:25
Poster Presentation Introductions
Jang, Soojeong

Lunch Break

Physical Processes in Inhomogeneous Medium

Chair: Chifu, Iulia
Room: CON-102

D2.5-0011-24 15:00 - 15:20 (solicited)
The distortion of solar radio burst observations by heliospheric density fluctuations
Chrysaphi, Nicolina

D2.5-0012-24 15:20 - 15:40 (solicited)
Understanding the Radial Expansion of Coronal Mass Ejections in the Heliosphere
Zhuang, Bin; Lugaz, Noé; Al-Haddad, Nada; Scolini, Camilla; Farrugia, Charles; Winslow, Reka; Regnault, Florian; Davies, Emma; Yu, Wenyuan; Galvin, Antoinette

D2.5-0013-24 15:40 - 15:55
The persistence of eruptions in their journey through the corona and heliosphere
Nitta, Nariaki; Jin, Meng; Dissauer, Karin

D2.5-0014-24 15:55 - 16:10
Estimation of the early CME propagation direction from coronal dimmings with DIRECD
Jain, Shantanu; Podladchikova, Tatiana; Chikunova, Galina; Dissauer, Karin; Veronig, Astrid

D2.5-0015-24 16:10 - 16:25
Parker Solar Probe fly-throughs and flybys coronal mass ejections
Braga, Carlos Roberto; Jagarlamudi, Vamsee Krishna; Vourlidas, Angelos; Stenborg, Guillermo; Nieves-Chinchilla, Teresa

Coffee Break

Synergies Among Theories, Modeling, and New Observations

Chair: Jin, Meng
Room: CON-102

D2.5-0016-24 17:00 - 17:30 (solicited)
Outstanding questions in coronal heating and solar wind physics
Viall, Nicholeen

D2.5-0017-24 17:30 - 17:45
Global coronal models driven with Alfven and kink waves
van Doorsselaere, Tom; Magyar, Norbert; Sieyra, M. Valeria; Goossens, Marcel

D2.5-0018-24 17:45 - 18:00
Nonequilibrium modeling of a current sheet plasma observations
Lee, Jin-Yi; Raymond, John; Reeves, Kathy; Shen, Chengcai; Kahler, Stephen; Moon, Yong-jae; Kim, Yeon-Han

D2.5-0019-24 18:00 - 18:15

The All Sky Heliospheric Imager (ASHI) NASA balloon flight image data reduction analysis
Jackson, Bernard; Bracamontes, Matthew; Hick, P.; Buffington, Andrew; Volkow, Stuart; White, Stephen; Bisi, Mario M.; Stephan, Ed; Leblanc, Philippe; Quillin, Ron

D2.5-0020-24 18:15 - 18:30

Spectral imaging coronagraph for the second phase of the chinese meridian project
Sun, Mingzhe; Xia, Lidong; Huang, Zhenghua; Fu, Hui; Liu, Weixin

Thu, Jul 18, 2024

D2.5-E3.5 Impact of the Inhomogeneous Solar Corona and Solar wind on CME Evolution

Main Scientific Organizer: Jang, Soojeong
Deputy Organizer: Jin, Meng

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-187 D2.5-0021-24

Acceleration Processes of Solar Energetic Particles in the heliosphere inferred from Their Onset Delay Time
Lee, Hae-In; Kwon, Ryun Young; Lee, Dae-Young

TWT-188 D2.5-0022-24

The Energy Distribution of the 2022 June 13 Solar Energetic Particle Event Accelerated by CME-driven Shock in Interplanetary Space
Yoo, Ji-Hyeon; Kwon, Ryun Young; Lee, Dae-Young

TWT-189 D2.5-0023-24

The Variability of Time-Intensity Profiles of Solar Energetic Particles during the Transition of Shocks from the Corona to Interplanetary Space
Lee, Hwanhee; Kwon, Ryun Young

TWT-190 D2.5-0024-24

Utilizing a Deep Learning Coronal Density Tomography method for Density Inference at 1AU
Jang, Soojeong; Kwon, Ryun Young; Moon, Yong-jae

D2.5-0025-24 (WITHDRAWN)

Forces acting on CMEs
Subramanian, Prasad

Thu, Jul 18, 2024

D3.1 Highlights of Magnetospheric Plasma Physics

Main Scientific Organizer: Nykyri, Katariina
Deputy Organizer: Zelenyi, Lev

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-191 D3.1-0020-24

Analysis of Energy Conversion at the Kelvin-Helmholtz Instability in Thin Shear Layers using PIC Simulations
Choi, Eunjin; Hwang, Kyoung-Joo; Burch, James; Dokgo, Kyunghwan; Min, Kyoung Wook

TWT-192 D3.1-0021-24

Wave activities around a crater-shaped flux rope in nonlinear Kelvin-Helmholtz vortex
Dokgo, Kyunghwan; Hwang, Kyoung-Joo; Burch, James; Yoon, Peter; Choi, Eunjin

TWT-193 D3.1-0022-24

Effects of Magnetic Reconnection Dynamics in Earth's Cusp: Investigating Plasma Filaments and Flux Transfer Events using Cluster Data
Agarwala, Nitya; Poh, Gangkai; Slavin, James; Le, Guan; Chen, Yuxi; Sun, Weijie

TWT-194 D3.1-0023-24

Solar wind structures as a source of magnetosheath transients
Xirogiannopoulou, Niki; Goncharov, Oleksandr; Safrankova, Jana; Nemecek, Zdenek

TWT-195 D3.1-0024-24

Characteristics of hectometric continuum radiation in near-Earth plasma
Chernyshov, Alexander; Dorofeev, Daniil; Mogilevsky, Mikhail; Kolpak, Valeriia; Chugunin, Dmitriy

TWT-196 D3.1-0025-24

Magnetospheric Ducts for Whistlers
Streltsov, Anatoly; Nejad, Salman

Thu, Jul 18, 2024

D3.2 Cross-scale Coupling and Multi-point Observations in the Solar Wind and Magnetosphere

Main Scientific Organizer: Stepanova, Marina

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-197 D3.2-0020-24

The Electron Plasma Camera for the Plasma Observatory ESA mission candidate
Berthomier, Matthieu; Leblanc, Frédéric; Techer, Jean-Denis; Alata, Yvon; Retino, Alessandro; Le Contel, Olivier; Forsyth, Colin; Brockley Blatt, Christine

D3.2-0021-24 (WITHDRAWN)

New small plasma spectrometers for ESA missions in Earth orbit
Fraenz, Markus; Saito, Yoshifumi; Krupp, Norbert; Roussos, Elias; Retino, Alessandro; Marcucci, Maria Federica; Fischer, Henning; Meyer, Frank

TWT-199 D3.2-0022-24

Joint analysis with Swarm and ground stations: ionospheric current system and geomagnetically induced currents
Zhang, Chunming; Dunlop, Malcolm; Yang, Junying; Xiong, Chao; Tan, Xin; Wei, Dong; Blagau, Adrian; Marghitu, Octav; Constantinescu, Vlad; Kervalishvili, Guram; Dong, Xiangcheng

TWT-200 D3.2-0023-24

Dst Index Forecasting Method during Geomagnetic Storm Based on Global Magnetosphere MHD Model
Yue, Jiawen; Guo, Xiaocheng

TWT-201 D3.2-0024-24

A methodology for the Kp Index calculation based on the global MHD simulation of earth's magnetosphere
Xi, Xinyue; Guo, Xiaocheng

TWT-202 D3.2-0025-24

Preliminary Analysis of Local K-Index Variation on the Magnetic Equator in the Southern Region of Thailand
Kaewthongrach, Rungnapa; Bumrungkit, Acharaporn; Myint, Lin Min Min; Channumsin, Sittiporn; Sutthana, Jaruwan; Puttasuwan, Keerati; Perwitasari, Septi; Nishioka, Michi; Hozumi, Kornyanat

TWT-203 D3.2-0026-24

Drivers of Extreme Geomagnetic Field Variations: Localized Events
Ngwira, Chigomezyo

Thu, Jul 18, 2024

D3.3 Origin of Non-thermal Distributions in Space Plasmas and their Role in Wave Generation and Heating / Acceleration of Particles

Main Scientific Organizer: Kourakis, Ioannis
Deputy Organizer: Lakhina, Gurbax Singh

Room: CON-104

D3.3-0001-24 09:00 - 09:30 (solicited)

New observations of the energization and acceleration of particles in the inner heliosphere and beyond.
Christian, Eric; McComas, David; Cohen, Christina; Schwadron, Nathan

D3.3-0002-24 09:30 - 09:50 (solicited)

Periodic density structures (PDS) in the solar wind and their geoeffectiveness
Katsavrias, Christos; Daglis, Ioannis; Di Matteo, Simone; Kepko, Larry; Viall, Nicholeen; Nicolaou, Georgios; Aminalragia-Giamini, Sigiava; Livadiotis, Georgios

D3.3-0003-24 09:50 - 10:10

Observations and modeling of unstable proton and alpha particle distributions close to the Sun
Ofman, Leon; Boardsen, Scott; Jian, Lan; Verniero, Jaye; Sadykov, Viacheslav; Yogesh, F; Mostafavi, Parisa; Larson, Davin; Livi, Roberto; Mcmanus, Michael; Rahmati, Ali; Stevens, Michael

D3.3-0004-24 10:10 - 10:30

Investigation of the Ion-Scale Cyclotron Waves and Their Relations with Nonthermal Ion Distributions in the Solar Wind Using Parker Solar Probe Observations
Jian, Lan; Boardsen, Scott; Ofman, Leon; Wei, Hanying; Huang, Jia; Stevens, Michael; Verniero, Jaye; Mcmanus, Michael; Larson, Davin

Coffee Break

Room: CON-104

D3.3-0005-24 11:00 - 11:30 (solicited)

Coherent electric field structures in the Earth's and Martian plasma environments
Kakad, Amar

D3.3-0006-24 11:30 - 11:50

Subsonic Nonlinear Waves in Reconnection Jets – the Role of Suprathermal Electrons
Singh, Kuldeep; Varghese, Steffy Sara; Verheest, Frank; Kourakis, Ioannis

D3.3-0007-24 11:50 - 12:10

Electrostatic Solitary Waves in Titan's Ionospheric Plasma
Varghese, Steffy Sara; Singh, Kuldeep; Kourakis, Ioannis

D3.3-0008-24 12:10 - 12:25

Lower Hybrid Waves in Nonthermal Space Plasma: Theory and Observations
Arya, Neetasha; Kakad, Amar

Lunch Break

Room: CON-104

D3.3-0009-24 15:00 - 15:20 (solicited)

Non-thermal solar-wind electron velocity distribution function
Yoon, Peter; López, Rodrigo A.; Salem, Chadi; Kim, Sunjung; Bonnell, John

D3.3-0010-24 15:20 - 15:40 (solicited)

The influence of intermittent turbulence on particle distributions and transport
Effenberger, Frederic; Luebke, Jeremiah; Wilbert, Mike; Fichtner, Horst; Grauer, Rainer

D3.3-0011-24 15:40 - 16:00 (solicited)

Measuring and interpreting non-thermal distributions in space plasmas
Nicolaou, Georgios; Livadiotis, Georgios; Verscharen, Daniel; Owen, Christopher; Coburn, Jesse; Razavi, Abid

D3.3-0012-24 16:00 - 16:15 (solicited)

Velocity stopbands associated with electrostatic solitary wave propagation in space plasma environments with suprathermal (kappa-distributed) electrons
Maharaj, Shimul K.; Bharuthram, Ramashwar; Kourakis, Ioannis

D3.3-0013-24 16:15 - 16:30

Solitary waves in spin-polarized astrophysical quantum plasmas
Kumar, Punit; Saxena, Atherv

Coffee Break

Room: CON-104

D3.3-0014-24 17:00 - 17:20

Kinetic Properties of Cold, Dense Ions in the near-Earth Magnetotail
Lee, Ensang; Kim, Hee-Eun; Parks, George

D3.3-0015-24 17:20 - 17:35

Spatial Scales of Rising-tone Chorus in a Dipole Magnetic Field: Two-dimensional Particle-in-cell Simulation
Xia, Zhiyang; Chen, Lunjin; Wang, Xueyi

D3.3-0016-24 17:35 - 17:50

Ion-scale waves in the expanding box model of the solar wind
Seough, Jungjoon; Yoon, Peter; Nariyuki, Yasuhiro

D3.3-0017-24 17:50 - 18:05

The effects of high speed beams on linear and nonlinear waves in plasmas with one or two (counter-streaming) electron beam populations
Maharaj, Shimul K.; Bharuthram, Ramashwar

D3.3-0018-24 18:05 - 18:20

Effect of Landau Damping on Electrostatic Solitary Waves in Non-Maxwellian Space Plasmas
Mushtaq, Hadia; Singh, Kuldeep; Kourakis, Ioannis

Thu, Jul 18, 2024

D3.3 Origin of Non-thermal Distributions in Space Plasmas and their Role in Wave Generation and Heating / Acceleration of Particles

Main Scientific Organizer: Kourakis, Ioannis
Deputy Organizer: Lakhina, Gurbax Singh

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-204 D3.3-0019-24

Mode conversion of electromagnetic waves in stratified, cold, magnetized plasmas with arbitrary directional magnetic field
Kim, Seulong; Kim, Kihong

Thu, Jul 18, 2024

D3.4 Particle Transport Acceleration and Loss in the Earth and Planetary Magnetospheres

Main Scientific Organizer: Kim, Kyung-Chan
Deputy Organizer: Usanova, Maria

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-205 D3.4-0025-24

Nonlinear Wave-particle Interaction Effects on Radiation Belt Electron Dynamics in October 9, 2012 storm
Kondrashov, Dmitri; Drozdov, Alexander; Shprits, Yuri

TWT-206 D3.4-0026-24

Marginal condition of electron temperature anisotropy instability in the inner magnetosphere observed by Arase (ERG)
Shinohara, Iku; Yang, Jingxuan; Kazama, Yoichi; Wang, Shiang-Yu; Jun, Chae-Woo; Kasahara, Satoshi; Yokota, Shoichiro; Keika, Kunihiro; Hori, Tomoaki; Asamura, Kazushi; Mitani, Takefumi; Matsuoka, Ayako

TWT-207 D3.4-0027-24

Acceleration efficiency of VLF and ULF waves on electrons of the outer Van Allen belt
Daglis, Ioannis A.; Nasi, Afroditi; Katsavrias, Christos; Aminalragia-Giamini, Sigiava; Dahmen, Nour; Brunet, Antoine; Papadimitriou, Constantinos; Bourdarie, Sebastien; Santolik, Ondrej; Sandberg, Ingmar; Darrouzet, Fabien; Kieokaew, Rungployphan; Miyoshi, Yoshizumi; Li, Wen; Balasis, Georgios; Mitani, Takefumi; Shinohara, Iku; Takashima, Takeshi; Hori, Tomoaki

TWT-208 D3.4-0028-24

Analysis of Low-Energy Ion Flux Enhancement Associated with Negative Spacecraft Potential in the Plasmasphere's Eclipse Region
Lee, Junhyun; Kim, Khan-Hyuk; Lee, Ensang; Jin, Ho; Kim, Hee-Eun

TWT-209 D3.4-0029-24

Comprehensive Modeling of Fast Electron Dropout in Earth's Outer Radiation Belt During the 31 December 2016 Storm
Huang, Jinbei; Lyu, Xingzhi; Tu, Weichao; Selesnick, Richard; Chen, Lunjin

D3.4-0030-24 (WITHDRAWN)

Phase Space Density Analysis of a Rapid Radiation Belt Enhancement Event with Reoccurring MeV Electron Injections and Higher L-region Losses
Kim, Hee-Jeong; Kim, Kyung-Chan; Lyons, Larry; Lee, Dae-Young

TWT-211 D3.4-0031-24

Observations from HEPD and MEPD onboard FY-3E satellite
Wang, chunqin

D3.4-0032-24 (WITHDRAWN)

Electron Precipitation into the South Atlantic Anomaly During Geomagnetic Storms
Grishina, Alina; Shprits, Yuri; Drozdov, Alexander; Wang, Dedong; Szabo-Roberts, Matyas; Haas, Bernhard

Thu, Jul 18, 2024

D3.5 Role of Mesoscale Coupling as the Driver of System Level Storm and Substorm Dynamics in Geospace

Main Scientific Organizer: Grigorenko, Elena
Deputy Organizer: Gkioulidou, Matina

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-213 D3.5-0014-24

Characteristics of field and plasma variations in the source region of substorm onset: Arase observation
Chen, Liwei; Shiokawa, Kazuo; Miyoshi, Yoshizumi; Oyama, Shin-ichiro; Jun, Chae-Woo; Hosokawa, Keisuke; Kazama, Yoichi; Wang, Shiang-Yu; Tam, Sunny W. Y.; Chang, Tzu-Fang; Wang, Bo-Jhou; Asamura, Kazushi; Kasahara, Satoshi; Yokota, Shoichiro; Hori, Tomoaki; Keika, Kunihiro; Kasaba, Yasumasa; Kumamoto, Atsushi; Tsuchiya, Fuminori; Shoji, Masafumi; Kasahara, Yoshiya; Matsuoka, Ayako; Shinohara, Iku; Nakamura, Satoko; Imajo, Shun

TWT-214 D3.5-0015-24

Current layer instabilities in the global hybrid-Vlasov simulation of the Earth's magnetosphere
Zaitsev, Ivan; Cozzani, Giulia; Alho, Markku; Horaites, Konstantinos; Zhou, Hongyang; Pfau-Kempf, Yann; Hoilijoki, Sanni; Ganse, Urs; Battarbee, Markus; Papadakis, Konstantinos; Turc, Lucile; Palmroth, Minna

TWT-215 D3.5-0016-24

A Proposed Regional Predictive Geospace/Geoelectric Field Product
Rasca, Anthony; Singer, Howard; Balch, Christopher; Guerra, Jordan; Camporeale, Enrico; Millward, George

TWT-216 D3.5-0017-24

Multi-case study of particle distribution functions associated with ion cyclotron waves at ballooning-interchange heads
Panov, Evgeny; Hosner, Martin; Baumjohann, Wolfgang; Nakamura, Rumi; Sergeev, Viktor

Thu, Jul 18, 2024

D3.6 CubeSat and Small Satellite Technology Addressing Magnetospheric Challenges

Main Scientific Organizer: Lee, Jaejin
Deputy Organizer: Hwang, Kyoung-Joo

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-217 D3.6-0013-24

Concept Design of Cold Gas Thruster for the Korean Space SCANeR
Song, Hosub; Lee, Daehee; Lee, Jaejin; Shin, Goo-Hwan; Jang, Il-Young

TWT-218 D3.6-0014-24

Concept Study and Initial Design of Deployer for Space SCANeR
Lee, Hojin; Sohn, Jongdae; Hwang, Junga; Moon, Bongkon; Lee, Daehee; Lee, Jaejin

TWT-219 D3.6-0015-24
Simulation of spacecraft charging based on 3U Cubesat in LEO environment
Na, Go Woon; Seon, Jongho; Lee, Jaehyeok; Lee, Dong-Hun

TWT-220 D3.6-0016-24
New particle detector for radiation belt small satellite fleet from refurbished flight-spares
Hajdas, Wojtek; Xiao, Hualin; Marcinkowski, Radoslav; Sarris, Theodore; Falanga, Maurizio

Thu, Jul 18, 2024

D3.7 Machine Learning and Data Sciences

Main Scientific Organizer: Shprits, Yuri
Deputy Organizer: Balasis, Georgios; Wing, Simon

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

D3.7-0020-24 (WITHDRAWN)
Advancing Solar and Analogue Sample Spectral Collection and Analysis
Robertson, Caitlin; Fazel Hesar, Fatemeh; Foing, Bernard H.; Balfe, Molly; Harvey, Matthew; Laffey, Jack; Horvat, Ivan

Thu, Jul 18, 2024

D3.8 Dayside Magnetosphere Interactions

Main Scientific Organizer: Zong, Qiugang
Deputy Organizer: Lee, Dong-Hun

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-222 D3.8-0010-24
Response of Electric Field in Terrestrial Magnetosphere to Interplanetary Shock
Liu, Wenlong; Zhang, Dianjun; Li, Xinlin; Sarris, Theodore

TWT-223 D3.8-0011-24
Numerical simulation of soft X-ray signature of high-speed magnetosheath jets
Voitcu, Gabriel; ***Echim, Marius***; Echim, Marius

TWT-224 D3.8-0012-24
Whistler-mode Waves inside Short Large-Amplitude Magnetic Field Structures: Characteristics and Generation Mechanisms
Bai, Shichen; Shi, Quanqi

TWT-225 D3.8-0013-24
Inferring the Causes of Magnetopause Motion from Geosynchronous and Equatorial Ground Magnetic Field Observations
Hsieh, Syau-Yun; Sibeck, David

TWT-226 D3.8-0014-24
Evidence for Earth wake of low-energy galactic cosmic rays in the Earth-Moon space
Shang, Wensai; Liu, Ji; Xu, Zigong; Yue, Chao; Shi, Quanqi; Wimmer-Schweingruber, Robert

Thu, Jul 18, 2024

E0.1 Scientific Commission E Overview Event

Main Scientific Organizer: Papadakis, Iossif
Deputy Organizer: Ubertini, Pietro

Future perspective for Space Astronomy I

Chair: Papadakis, Iossif
Room: CON-205

E0.1-0001-24 09:00 - 09:15 (solicited)
In memoriam of Tomaso Belloni: a Personal and COSPAR view
Ubertini, Pietro

E0.1-0002-24 09:15 - 09:30 (solicited)
Cospar strategic Plan: A new age of astronomy
Cesarsky, Catherine; Ubertini, Pietro; Papadakis, Iossif

E0.1-0003-24 09:30 - 10:00 (solicited)
JWST, AGN feedback and the first supemassive black holes in the universe
Silk, Joseph

E0.1-0004-24 10:00 - 10:30 (solicited)
X-ray binaries through the lens of advanced observatories
Veledina, Alexandra

Coffee Break

Future perspective for Space Astronomy II

Chair: Cesarsky, Catherine
Room: CON-205

E0.1-0005-24 11:00 - 11:30 (solicited)
Next-Generation Solar Observations: The Sun Beyond the Sun-Earth Line and the Ecliptic Plane
Georgoulis, Manolis K.

E0.1-0006-24 11:30 - 12:00 (solicited)
Gravitational-wave and multi-messenger perspectives
Branchesi, Marica

E0.1-0007-24 12:00 - 12:30
The Euclid satellite and its objectives
Bernardeau, Francis

Thu, Jul 18, 2024

E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

VHE multi-messenger observations (gamma rays, neutrino) and their interpretations

Chair: Mirzoyan, Razmik
Room: CON-205

E1.1-0050-24 15:00 - 15:20 (solicited)
Unveiling The Cosmic-Ray Accelerators with Recent HAWC Results
Wang, Xiaojie Team: HAWC p. 451

E1.1-0051-24 15:20 - 15:35
Small-Scale Magnetic Fields are Critical to Shaping Solar Gamma-Ray Emission
Li, Jung-Tsung; Beacom, John; Griffith, Spencer; Peter, Annika

E1.1-0052-24 15:35 - 15:55
Gazing into the Cosmos through IceCube: Neutrino Astrophysics and Multi-Messenger Insights
Ha, Chang Hyon Team: IceCube p. 452

E1.1-0053-24 15:55 - 16:15
Latest status and results of the ALPACA experiment: the sub-PeV to PeV gamma-ray observation in the southern hemisphere
Kawashima, Teruyoshi Team: The ALPACA Collaboration p. 459

E1.1-0054-24 (WITHDRAWN) 16:15 - 16:30
High-energy multi-messenger backgrounds from cosmic rays in star-forming galaxies
Owen, Ellis; Inoue, Yoshiyuki

Coffee Break

Theory: UHE cosmic rays, intergalactic medium, and observations of gamma-ray bursts

Chair: Cholis, Ilias
Room: CON-205

E1.1-0055-24 17:00 - 17:15
PeV Cosmic Rays from Young Massive Star Clusters: The Role of the Magnetic Field
Härer, Lucia; Vieu, Thibault; Reville, Brian

E1.1-0056-24 17:15 - 17:30
Ultra-High-Energy Cosmic Rays Accelerated in Relativistic Jets from Radio Galaxies
Kang, Hyesung; Ryu, Dongsu; Seo, Jeongbhin

E1.1-0057-24 17:30 - 17:45
What do we know about cosmic rays with energies in the range of 500 PeV to 5 EeV?
Biteau, Jonathan; Biteau, Jonathan Team: Pierre Auger Collaboration p. 456

E1.1-0058-24 17:45 - 18:00
On the verge of discovering ultra-high-energy accelerators?
Biteau, Jonathan; Biteau, Jonathan; Deligny, Olivier; Condorelli, Antonio; Bregeon, Johan

E1.1-0059-24 18:00 - 18:15
Heating of the Intergalactic Medium by Cosmic Rays in the Epoch of Reionization
Yokoyama, Shota; Ohira, Yutaka

E1.1-0060-24 18:15 - 18:30
The HEPD-01 instrument as a Gamma-Ray Burst detector on board the CSES-01 satellite and future perspectives
Palma, Francesco; Martucci, Matteo; Neubüser, Coralie; Sotgiu, Alessandro; Follega, Francesco Maria; Ubertini, Pietro; Bazzano, Angela; Rodi, James Craig Team: CSES-Limadou collaboration p. 449

Thu, Jul 18, 2024

E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-227 E1.1-0087-24
Performance of the ISS-CREAM Instrument
Kang, Sinchul Team: ISS-CREAM p. 453

TWT-228 E1.1-0088-24
Analysis of Monte Carlo Simulation Data for the ISS-CREAM Instrument
Bagga, Arul Team: ISS-CREAM Collaboration p. 453

TWT-229 E1.1-0089-24
Cosmic ray-MHD flows on a magnetic flux-surface
Ko, Chung-Ming

TWT-230 E1.1-0090-24
Wave-particle resonant interactions as a mirror for the fluxes of relativistic particles in space plasmas
Shkevov, Rumen; ***Mishev, Alexander***; Mishev, Alexander; Zolnikova, Nadezhda; Mikhailovskaya, Ludmila; Metodiev, Konstantin

TWT-231 E1.1-0091-24
Microinstabilities and Electron Preacceleration at Quasi-perpendicular Shocks in the High-Beta Intracluster Medium
Kim, Sunjung; Ha, Ji-Hoon; Ryu, Dongsu; Kang, Hyesung; Choe, Gwangson

TWT-232 E1.1-0092-24
TIGERISS predicted measurements
Rauch, Brian; Zober, Wolfgang Team: TIGERISS Collaboration p. 460

TWT-233 E1.1-0093-24
The calorimeter of the HERD experiment
Liu, Xin Team: HERD collaboration p. 452

TWT-234 E1.1-0094-24
Application of GNN method for particle tracking in the HERD experiment
Wang, Junjing; Sun, Jianyi; Xu, Ming; Dong, Yongwei

Thu, Jul 18, 2024

E1.3 Space-ground Scientific and Exploitation Synergies and Challenges

Main Scientific Organizer: Giménez, Alvaro
Deputy Organizer: Ubertini, Pietro

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-250 E1.3-0012-24
FXT Science Data Center of Einstein Probe
Jia, Shumei; Li, Chengkui; Zhao, Haisheng; Zhang, Juan; Guan, Ju; Ou, Ge; Song, LiMing

TWT-251 E1.3-0013-24
Science operations and space-ground synergies of the Einstein Probe mission
Li, Dongyue; Bao, Congying; Jin, Chichuan; Yuan, Weimin

TWT-252 E1.3-0014-24
Space Extendable Radio-telescope Array
Weimin, Zheng

TWT-253 E1.3-0015-24
Cosmic Radiation Effects in LiteBIRD
Della Torre, Stefano

TWT-254 E1.3-0016-24
The Challenges in the data processing of Einstein Probe mission
Ji, Zhen; Ma, Fuli; Tong, Jizhou; Yu, Qinsi; Wei, Mingyue; Zou, Ziming

TWT-255 E1.3-0017-24
Detailed design and on orbit performance for HXI onboard ASO-S
Chen, Dengyi; Wang, Hao-Xiang; Hu, Yiming; Su, Yang; Zhe, Zhang

Thu, Jul 18, 2024

E1.4 Spectral Mapping Surveys of the Universe

Main Scientific Organizer: Jeong, Woong-Seob
Deputy Organizer: Im, Myungshin

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-256 E1.4-0008-24
Development of a spectrograph in the Far-ultraviolet wavelength band
Ghatul, Shubham; ***Mohan, Rekhesh***; Mohan, Rekhesh; Chandra P, Bharat; Jain, Shubhangi; Gopalakrishnan Nair, Binukumar; Babu, Mahesh; Safonova, Margarita; Murthy, Jayant

TWT-257 E1.4-0009-24
Identification of Superclusters and their Properties in the Sloan Digital Sky Survey
Sankhyayan, Shishir

TWT-258 E1.4-0010-24
Identification of Wolf-Rayet stars and line-emitting sources with SPHEREx
Jung, Moo-Keon; Yoon, Sung-Chul

Thu, Jul 18, 2024

E1.5 Illuminating Gravitational Waves and their Environments

Main Scientific Organizer: Troja, Eleonora
Deputy Organizer: Im, Myungshin

Gravitational Waves

Chair: Lee, Hyung Mok
Room: CON-108

E1.5-0001-24 15:00 - 15:30 (solicited)
Gravitational-wave astronomy: Status and prospects
Parameswaran, Ajith

E1.5-0002-24 15:30 - 15:45 (solicited)
Current status of LIGO-Virgo-KAGRA gravitational-wave observations
Morisaki, Soichiro

E1.5-0003-24 15:45 - 16:00 (solicited)
What we have learned from gravitational wave observations?
Kim, Chunglee

E1.5-0004-24 16:00 - 16:15
Influence of Magnetic Fields on Gravitational Waves Emitted by Neutron Star Binaries
Prasad, R.; Doke, Anushka; Kumar, Prayush

E1.5-0005-24 16:15 - 16:30
Analyzing Gravitational Waves from Core-Collapse Supernovae: Detection and Reconstruction
Doke, Anushka; Iess, Alberto; Cuoco, Elena

Thu, Jul 18, 2024

E1.5 Illuminating Gravitational Waves and their Environments

Main Scientific Organizer: Troja, Eleonora
Deputy Organizer: Im, Myungshin

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-259 E1.5-0034-24
The KOYOH Microsatellite: Monitoring of X-ray Transient Sources and Rapid Alert System
Sawano, Tatsuya; Akahane, Takayuki; Arimoto, Makoto; Eguchi, Daichi; Hasegawa, Takuma; Horita, Masashi; Imachi, Tomohiko; Imizu, Yuki; Jikuya, Ichiro; Kasahara, Yoshiya; Kato, Yuki; Kawamoto, Ryuki; Kawasuji, Naoki; Kimura, Mariko; Kiyoi, Ayaka; Kojima, Yasuha; Kurosu, Tomohisa; Matsuda, Shoya; Mihara, Tatehiro; Nakamura, Shunsuke; Nishide, Taro; Otaki, Takeo; Sakata, Misaki; Shoji, Yasuhiro; Suzuki, Taisei; Takahashi, Naoki; Takeuchi, Kaiji; Utoyama, Mitsuki; Yagitani, Satoshi; Yonetoku, Daisuke; Yoshida, Tsubasa

TWT-260 E1.5-0035-24
Initial Flight Results of Astronomical Observation with Kanazawa University Satellite KOYOH
Takahashi, Naoki; Sawano, Tatsuya; Yonetoku, Daisuke; Akahane, Takayuki; Arimoto, Makoto; Eguchi, Daichi; Hasegawa, Takuma; Horita, Masashi; Imachi, Tomohiko; Imizu, Yuki; Jikuya, Ichiro; Kasahara, Yoshiya; Kato, Yuki; Kawamoto, Ryuki; Kawasuji, Naoki; Kimura, Mariko; Kiyoi, Ayaka; Kojima, Yasuha; Kurosu, Tomohisa; Matsuda, Shoya; Nakamura, Shunsuke; Nishide, Taro; Otaki, Takeo; Sakata, Misaki; Shoji, Yasuhiro; Takeuchi, Kaiji; Utoyama, Mitsuki; Yagitani, Satoshi; Yoshida, Tsubasa; Suzuki, Taisei

TWT-261 E1.5-0036-24
The Gravitational Wave AfterglowPy Analysis (GWAPA) webtool
Eyles-Ferris, Rob; Troja, Eleonora; van Eerten, Hendrik; O'Brien, Paul

TWT-262 E1.5-0037-24
Development and performance of wide field X-ray monitor onboard HiZ-GUNDAM
Goto, Hatsune; Yonetoku, Daisuke; Nagataka, Isshin; Sawano, Tatsuya; Arimoto, Makoto; Sakamoto, Takanori; Mihara, Tatehiro; Takase, Naoki; Kaga, Toru; Nakatsubo, Shunichi; Doi, Akihiro; Maeda, Yoshitomo; Matsuhara, Hideo

TWT-263 E1.5-0038-24
Upper limit estimation of X-ray flux for gravitational wave counterparts with MAXI
Kondo, Yuta; Sakamoto, Takanori; Serino, Motoko; Sugita, Satoshi; Hiramatsu, Hiroki; Nishikawa, Hinano; Kawai, Nobuyuki; Negoro, Hitoshi; Nakajima, Motoki; Mihara, Tatehiro; Kawakubo, Yuta

TWT-264 E1.5-0039-24
Multi-messaging prelude: precursors of gravitational wave emitters at the milliarcsecond scale
Gurvits, Leonid; Polnarev, Alexandre; Frey, Sándor; Titov, Oleg

E1.5-0040-24 (WITHDRAWN)
Search for the primordial gravitational waves by the apparent proper motion of extragalactic radio sources
Osetrova, Angelina; Titov, Oleg

TWT-265 E1.5-0041-24
Searching for an Electromagnetic X-ray Counterpart of Gravitational-wave by 3U CubeSat SEAGULL
Sakamoto, Takanori; ***Li, Junyi***; Li, Junyi; Sei, Kensyo; Serino, Motoko

TWT-266 E1.5-0042-24
The Impact of Solar – Terrestrial Plasma and Magnetic Field on the Detection of Gravitational Waves
Wei, Su; Chen, P. F.

TWT-267 E1.5-0043-24
Prioritising Gravitational Wave form accuracy for EMRI systems: Higher Order Vacuum Corrections vs. Environmental effect.
Basu, Prasad; Mondal, Soumen

TWT-268 E1.5-0044-24
Detectability of gas-rich E/IMRI's in LISA band: observable signature of transonic accretion flow.
Mondal, Soumen; Basu, Prasad

Thu, Jul 18, 2024

E1.6 Explosive Phenomena in Transient and Multimessenger Sources and their Observational Manifestations

Main Scientific Organizer: Natalucci, Lorenzo
Deputy Organizer: Branchesi, Marica

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-269 E1.6-0047-24
Chasing after the near-infrared afterglow of gamma-ray bursts with COLIBRI/CAGIRE
Fortin, Francis Team: COLIBRI/CAGIRE team p. 449

Thu, Jul 18, 2024

E1.7 Black Hole Astrophysics: Theory and Simulations Confront Observations

Main Scientific Organizer: Chakrabarti, Sandip Kumar
Deputy Organizer: Laurent, Philippe

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

E1.7-0042-24 (WITHDRAWN)
Imprints of spin on the solution and emission spectrum of accretion flows around black holes
Sarkar, Shilpa; Chattopadhyay, Indranil

TWT-270 E1.7-0043-24
Analytic theory of accretion disks in axially symmetric space-times
Laemmerzahl, Claus

TWT-271 E1.7-0044-24
Extended Database of Massive Binaries and the Gravitational Waveforms they Generate
Pislan, Florentina; Caramete, Laurentiu Ioan; Caramete, Ana

E1.7-0045-24 (WITHDRAWN)
Searching for dual active galactic nuclei in Dark Energy Spectroscopic Instrument.
Dadiani, Ekaterine

TWT-272 E1.7-0046-24
Detection Prospects of Electromagnetic Signals from the Isolated Stellar-Mass Black Hole OGLE-2011-BLG-0462
Kimura, Shigeo; Sahu, Kailash; Murchikova, Elena

Thu, Jul 18, 2024

E1.8 Solving the Accretion/Ejection Puzzle in AGN: Synergies and Clashes in the Central kpc

Main Scientific Organizer: Bruni, Gabriele
Deputy Organizer: Molina, Manuela

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-273 E1.8-0029-24
Interferometric Monitoring of Gamma-ray Bright AGNs: 4C +28.07 and its Synchrotron Self-absorption Spectrum
Nam, Myeong-Seok; Lee, Sang-Sung; Cheong, Whee Yeon

Thu, Jul 18, 2024

E1.11 Coevolution between High-redshift Quasars and Galaxies in the Era of JWST

Main Scientific Organizer: Inayoshi, Kohei
Deputy Organizer: Silverman, John

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

E1.11-0039-24 (WITHDRAWN)
The Turbulent Origin of the First Quasars
Whalen, Daniel

E1.11-0040-24 (WITHDRAWN)
Multi-wavelength characterization of black hole feedback at z=7
Bischetti, Manuela

E1.11-0041-24 (WITHDRAWN)
Painting the Cosmos Red: JWST Insights into Red Super Massive Black Holes
Kokorev, Vasily

E1.11-0042-24 (WITHDRAWN)
Super-Eddington accreting black hole emerged in the epicenter of little red dots, mergers, and dusty starbursts at z=7.2
Fujimoto, Seiji

E1.11-0043-24 (WITHDRAWN)
The population of infant black holes revealed by JWST
Maiolino, Roberto

E1.11-0044-24 (WITHDRAWN)
Public release of Near-Infrared and Optical Spectroscopy of Quasars at z 6.5 and analysis of their proximity zones
Onorato, Silvia

TWT-235 E1.11-0045-24
Two-component spectral energy distributions of gravitationally lensed stars at high redshifts
Nabizadeh, Armin; Zackrisson, Erik; Lundqvist, Emma

E1.11-0046-24 (WITHDRAWN)
Mapping the Lyman-alpha Universe: Semi-empirical modeling of Lyman-alpha emitters in a large simulation
Park, Jaehong; Park, Changbom; Kim, Juhan; Lee, Jaehyun

E1.11-0047-24 (WITHDRAWN)
Tracing the evolution of supermassive black holes with high-z quasar clustering measurements
Pizzati, Elia

E1.11-0048-24 (WITHDRAWN)
Towards precision constraints on reionization history and SMBH growth with quasar IGM damping wings
Kist, Timo

Thu, Jul 18, 2024

E1.12 Gamma-ray Bursts in the next Decade

Main Scientific Organizer: D'avanzo, Paolo
Deputy Organizer: Bissaldi, Elisabetta

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-237 E1.12-0032-24
Infra-red light curves of GRB afterglows observed at AKO
Guessoum, Nidhal; Odeh, Mohammad; Alshamsi, Shaikha; Akl, Dalya; Abdi, Ilmah

TWT-238 E1.12-0033-24
Redshift Estimates for Short Gamma-Ray Bursts Using Phenomenological Correlations
Aimuratov, Yerlan

TWT-239 E1.12-0034-24
Searching for high-energy transient sources with SVOM/ECLAIRs: offline trigger development.
Llamas Lanza, Miguel; Bouchet, Laurent

TWT-240 E1.12-0035-24
GRB 230812B: A Three-Second Gamma-Ray Burst with Supernova Association Detected by the GRID Mission
Wang, Chenyu; Zhang, Binbin; Feng, Hua; Zeng, Ming Team: GRID collaboration p. 451

TWT-241 E1.12-0036-24
Modelling gamma-ray burst X-ray afterglow spectra with time-evolving photoionisation
Thakur, Aishwarya Linesh; ***Piro, Luigi***; Piro, Luigi; Luminari, Alfredo; Nicastro, Fabrizio

TWT-242 E1.12-0037-24
Improved Tools for GRB-Afterglow Photometry
Akl, Dalya; Antier, Sarah; Karpov, Sergey; Odeh, Mohammad; Guessoum, Nidhal

TWT-243 E1.12-0038-24
Early Results from the Glowbug Gamma-ray Transient Telescope
Cheung, C. C. Teddy; Grove, J Eric; Kerr, Matthew; Woolf, Richard; Goldstein, Adam; Wilson-Hodge, Colleen; Kocevski, Daniel; Briggs, Michael

E1.12-0039-24 (WITHDRAWN)
Large-scale Evolution of Seconds-long Relativistic Jets from Black Hole-Neutron Star Mergers
Issa, Danat

Thu, Jul 18, 2024

E1.14 Multi-wavelength fast variability across mass scales: from neutron stars to supermassive black holes

Main Scientific Organizer: Vincentelli, Federico
Deputy Organizer: Russell, David

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-245 E1.14-0016-24
DART: radio astronomy observations of pulsars, FRBs, and extended sources
Yuan, Mao; Yan, Jingye; Wu, Lin

Thu, Jul 18, 2024

E1.16 High Mass X-ray Binaries: a new View on Accretion and Reprocessing

Main Scientific Organizer: Paul, Biswajit
Deputy Organizer: Chaty, Sylvain

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

E1.16-0024-24 (WITHDRAWN)
Discovery of a cyclotron line in Be X-ray Pulsar IGR J06074+2205
Roy, Kinjal; Sharma, Rahul; Manikantan, Hemanth; Paul, Biswajit

TWT-247 E1.16-0025-24
Long-term study of broadband variability in Cygnus X-1 using AstroSat
Lalthantluanga, H; Garg, Akash; Chhangte, Vanzarmawii; Misra, Ranjeev; Zadeng, Lalthakimi

TWT-248 E1.16-0026-24
Statistical Analysis of Type I and Type II Outbursts in Be X-ray Binary Systems
Polaks, Andis; Nabizadeh, Armin; Tsygankov, Sergey

TWT-249 E1.16-0027-24
Study of eclipse flares in High Mass X-ray Binary Systems Vela X-1, 4U 1700-37, and LMC X-4
Rikame, Ketan; Paul, Biswajit; Sharma, Rahul; Jithesh, V

Thu, Jul 18, 2024

E1.19 Cataclysmic Variables and Related Systems as Probes of Accretion, Binary Evolution and Thermo-nuclear Explosions

Main Scientific Organizer: Balman, Solen
Deputy Organizer: Jose, Jordi

New populations of accreting white dwarfs and a multiwavelength approach

Chair: Schwope, Axel
Room: CON-105

E1.19-0023-24 15:00 - 15:30
Cataclysmic variables with nuclear evolved donor stars
Gaensicke, Boris

E1.19-0024-24 15:30 - 16:00 (solicited)
The population of WD pulsars: unlocking the mysteries of compact binary evolution.
Castro Segura, Noel

E1.19-0025-24 16:00 - 16:30 (solicited)
Radio Observations of Accreting White Dwarf Binaries
Woudt, Patrick

Coffee Break

Nova populations and observational characteristics

Chair: Echevarria, Juan
Room: CON-105

E1.19-0026-24 17:00 - 17:30
Discussion Panel I: A panorama of accretion and evolution in AWDs and interconnections with related systems
Gaensicke, Boris; Scaringi, Simone; Schwope, Axel; Pala, Anna Francesca; Tovmassian, Gagik; Balman, Solen

E1.19-0027-24 17:30 - 18:00 (solicited)
Population synthesis of novae as a probe of binary stellar physics
Kemp, Alex

E1.19-0028-24 18:00 - 18:20
On the Nova Super-Remnant Phenomenon
Healy-Kalesh, Michael

Thu, Jul 18, 2024

E2.1 Energetics and dynamics in the quiet solar atmosphere and beyond

Main Scientific Organizer: Huang, Zhenghua
Deputy Organizer: Madjarska-Theissen, Maria

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-274 E2.1-0040-24
Internal Activities in a Solar Filament and Heating in Its Threads
Wei, Hengyuan; Huang, Zhenghua; Li, Chuan; Hou, Zhenyong; Qiu, Ye; Fu, Hui; Bai, Xianyong; Xia, Lidong

TWT-275 E2.1-0041-24
Measurements to electron density and magnetic strength of coronal structures with CoMP observations
Shi, Huixin; Huang, Zhenghua

TWT-276 E2.1-0042-24
Brightenings in coronal loops
Zuo, Xiuhui; Huang, Zhenghua; Wei, Hengyuan; Xia, Lidong; Liu, Weixin

TWT-277 E2.1-0043-24
Revised Point-Spread Functions for SDO/AIA
Hofmeister, Stefan; Hahn, Michael; Savin, Daniel W.

TWT-278 E2.1-0044-24
IRIS Observations of Off-limb Chromosphere: Coronal Hole and Quiet Sun Regions
Tei, Akiko; Gunár, Stanislav; Okamoto, Joten

TWT-279 E2.1-0045-24
Statistical study on the magnetic properties of small-scale loops in the quiet Sun
Madjarska-Theissen, Maria; Wiegelmann, Thomas; Galsgaard, Klaus; Demoulin, Pascal

TWT-280 E2.1-0046-24
Formation of a streamer blob via merging multiple plasma clumps below 2 solar radii
Huang, Zhenghua; Deng, Kaiwen; Li, Haiyi; Fu, Hui; Xia, Lidong; Song, Hong-Qiang; Xiong, Ming; Wei, Hengyuan; Qi, Youqian; Zhang, Chao

Thu, Jul 18, 2024

E2.2 Energy and mass transport of small scales in the low solar atmosphere

Main Scientific Organizer: Lim, Eun-Kyung
Deputy Organizer: De Pontieu, Bart

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-281 E2.2-0036-24
Small loop activities observed in He I D3 line by using the GST
Kim, Yeon-Han; Bong, Su-Chan; Lim, Eun-Kyung; Yang, Heesu; Yurchyshyn, Vasyl

TWT-282 E2.2-0037-24
An Optically Thin View of the Solar Chromosphere from Observations of the O I 135.5 nm Spectral Line
De Pontieu, Bart; Carlsson, Mats

TWT-283 E2.2-0038-24
Penumbra formation by settling of magnetic field lines observed by GST
Schmieder, Brigitte; Zhao, Jie; Zhu, Xiaoshuai; Li, Hui; Cao, Wenda; Yang, Xu

TWT-284 E2.2-0039-24
Chromospheric Alfvénic Waves and Their Connection to Solar Abundance Fractionation in an Active Region
Lee, Kyoung-Sun; Chae, Jongchul; Kwak, Hannah; Lee, Kyeore

TWT-285 E2.2-0040-24
On the onset of a coronal jet through MHD simulation
Nayak, Sushree Sangeeta

Thu, Jul 18, 2024

E2.3 Plasma and Magnetic Field Coupling in Solar Prominences

Main Scientific Organizer: Gunár, Stanislav
Deputy Organizer: Schmieder, Brigitte

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-286 **E2.3-0035-24**
Solar prominence diagnostics and their associated estimated errors from 1D NLTE MgII h&k modelling
Peat, Aaron; Labrosse, Nicolas; Schmieder, Brigitte; Barczynski, Krzysztof

TWT-287 **E2.3-0036-24**
Study of Cool Loops through 2D NLTE Modelling
Peat, Aaron; Heinzel, Petr; Berlicki, Arkadiusz; Mikuła, Katarzyna

Thu, Jul 18, 2024

E2.4 Application of Machine Learning Techniques in Solar and Heliospheric Physics

Main Scientific Organizer: Chifu, Iulia
Deputy Organizer: Gafeira, Ricardo

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-288 **E2.4-0025-24**
Coronal Hole Detection and Tracking with Machine Learning Methods
Liu, Junyan; Shen, Chenglong; Chi, Yutian; Mao, Dongwei; Zhong, Zhihui; Zhang, Zhiyong

TWT-289 **E2.4-0026-24**
Near-real time 3D coronal magnetic field reconstruction in various solar active regions using a deep learning model
Kang, Jihye; Jeong, Hyun-Jin; Moon, Yong-jae

Thu, Jul 18, 2024

E2.5 Waves in the Solar Atmosphere, from the Photosphere to the Corona and Solar Wind

Main Scientific Organizer: van Doorsselaere, Tom
Deputy Organizer: Li, Bo

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-290 **E2.5-0031-24**
Resonant damping of MHD body modes under photospheric conditions
Yu, Dae Jung

TWT-291 **E2.5-0032-24**
Damped kink motions in a system of two solar coronal tubes with elliptic cross-sections
Li, Bo; Shi, Mijie; Chen, Shao-Xia; Yu, Hui; Guo, Mingzhe

TWT-292 **E2.5-0033-24**
The Splitting of Peaks of Umbral Oscillation Power and the Height of the Transition Region
Kang, Soosang; Chae, Jongchul

Thu, Jul 18, 2024

E2.6 Developments and Applications of the Solar Magnetic Field Modelling

Main Scientific Organizer: Zhu, Xiaoshuai
Deputy Organizer: Zhao, Jie

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-293 **E2.6-0022-24**
Change Ratios of Magnetic Helicity and Magnetic Free Energy During Major Solar Flares
Wang, Quan; Zhang, Mei; Yang, Shangbin; Yang, Xiao; Zhu, Xiaoshuai

TWT-294 **E2.6-0023-24**
Structure and Evolution of an Inter–Active Region Large-scale Magnetic Flux Rope
Duan, Aiying

TWT-295 **E2.6-0024-24**
Construction of Nonlinear Force-Free Fields in the Poloidal-Toroidal Formulation in a Spherical Geometry
Yi, Sibaek; Choe, Gwangson; Kim, Sunjung; Lee, Minseon

TWT-296 **E2.6-0025-24**
Solar interior currents presumed by solar surface magnetic fields
Kim, Bogyeong; Yi, Yu

TWT-297 E2.6-0026-24
A Novel Database of 3D Magnetic Loop Models as a Tool for Flare Analysis: Case Study of the GOES C6.2 Flare on 27 October 2003
Cuambe, Valente; Costa, Joaquim; Simões, Paulo

TWT-298 E2.6-0027-24
Data-driven modeling of the "puzzling" NOAA Active Region 12665 using AI-generated boundary input (SuperSynthIA)
Kang, Yeongmin; Kaneko, Takafumi; Leka, K D; Cabezas, Denis Pavel; Fouhey, David; Wang, Ruoyu; Kusano, Kanya

TWT-299 E2.6-0028-24
A model of failed solar eruption initiated and destructed by magnetic reconnection
Jiang, Chaowei

Thu, Jul 18, 2024

E2.7 Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology

Main Scientific Organizer: Ofman, Leon
Deputy Organizer: Lee, Dong-Hun

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-300 E2.7-0011-24
Case studies of wave propagation along coronal streamers resulting from coronal mass ejection - streamer interactions
Khabarova, Olga; Ofman, Leon; Heifetz, Eyal

Thu, Jul 18, 2024

F1.2 Space Microgravity Environment Utilization

Main Scientific Organizer: Choi, Gi Hyuk
Deputy Organizer: Lee, Joo-Hee

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-301 F1.2-0025-24
A Study on System Design of Air Management system for Undersea Space Platform
Kim, Younkyu; Lee, Joo-Hee

Thu, Jul 18, 2024

F2.1 Biological Effects of Space Radiation and Co-stressors

Main Scientific Organizer: Hellweg, Christine
Deputy Organizer: Schroeder, Insa Sigrid

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-302 F2.1-0019-24
Assessing Synergistic Cognitive Effects of Hypergravity and Proton Radiation in a Ground-Based Rat Model
Chang, Hui Ho Vanessa; Sultana, Marium; Kim, Gyutae; Kim, Kyu-Sung; Britten, Richard

F2.1-0020-24 (WITHDRAWN)
Diffusion-based data augmentation for dicentric chromosome discrimination using deep convolutional neural network
Kwon, Soon Woo; Seong, Ki Moon; Lee, Yang Hee; Yoon, Hyo Jin; Yang, Su San

TWT-304 F2.1-0021-24
Space Radiation Effects on Human Physiology and Performance
Welker, Madeline; Simmons, Kevin

F2.1-0022-24 (WITHDRAWN)
A study on fog enhanced airborne bacteria detecting pathogenicity over Central Indo-Gangetic Plain, India
Saikh, Shahina Raushan; das, Sanat Kumar

Thu, Jul 18, 2024

F2.4 Genetic Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight

Main Scientific Organizer: Sun, Yeqing
Deputy Organizer: Wu, Honglu

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-306 F2.4-0017-24

ROLE OF PIEZO1 IN T CELL ACTIVATION UNDER SIMULATED MICROGRAVITY
Wu, Honglu; Moreno-Villanueva, Maria; Crucian, Brian

TWT-307 F2.4-0018-24

Domestication of radiation sensitive Caenorhabditis elegans strains suitable for liquid culture systems in long-term space missions
Yuan, Shuqi; Wang, Wei; Liu, Yuanyuan; Liang, Zheng; Zhao, Lei; Zhong, Runtao; Sun, Yeqing

Thu, Jul 18, 2024

F3.1 Chemical Complexity of Molecular Universe

Main Scientific Organizer: das, Ankan
Deputy Organizer: Puzzarini, Cristina

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-308 F3.1-0033-24

Chemical evolution of complex organic molecules in low-mass star-forming regions
Bhat, Bratati; Kar, Rumela; Mondal, Suman Kumar; Ghosh, Rana; Gorai, Prasanta; Shimonishi, Takashi; Tanaka, Kei; Furuya, Kenji; das, Ankan

TWT-309 F3.1-0034-24

SO and SO2 as evolutionary tracers of low-mass star-forming region
Ghosh, Rana; das, Ankan; Gorai, Prasanta; Mondal, Suman Kumar; Furuya, Kenji; Tanaka, Kei; Shimonishi, Takashi

Thu, Jul 18, 2024

F3.2 Astrobiology and Exploration

Main Scientific Organizer: Rettberg, Petra
Deputy Organizer: Antunes, André

Astrobiological lab experiments, modelling, human space flight

Chair: Zaccaria, Tommaso
Room: EC1-212

F3.2-0001-24 09:00 - 09:20

Tanpopo-5 and Tanpopo-6: Current status of space exposure experiments for microbes and organic compounds at the Exposure Facility of the Japanese Experiment Module of the International Space Station and beyond
Yokobori, Shin-Ichi; Fujita, Tomomichi; Tomita-Yokotani, Kaori; Abe, Tomoko; Katoh, Hiroshi; Bessho, Yoshitaka; Kume, Atsushi; Hiwatashi, Yuji; Hashimoto, Hirofumi; Kobayashi, Kensei; Yamagishi, Akihiko; Mita, Hajime

F3.2-0002-24 09:20 - 09:40

A COMPARISON BETWEEN THREE PROJECTS EXPLORING HOW LIFE MIGHT ORIGIN AND PERPETUATE ON MARS USING PLANETARY FIELD ANALOGUES
Bellucci, Micoli; Pedone, Maria; Pezzilli, Serena; Pacelli, Claudia; Gangi, Manuele; Billi, Daniela; Selbmann, Laura; Cavalazzi, Barbara; Negri, Barbara

F3.2-0003-24 09:40 - 09:55

BioSigN: a space experiment on the ISS as preparation for in situ life detection missions and habitability studies
de Vera, Jean-Pierre; Baqué, Mickael Team: BioSigN p. 448

F3.2-0004-24 09:55 - 10:15

Formation and stability of macromolecular amino acid precursors in space
Kobayashi, Kensei; Ikeda, Ibuki; Kebukawa, Yoko; Yoda, Isao; Mita, Hajime; Takahashi, Jun-ichi; Shibata, Hiromi; Sakon, Itsuki; Yano, Hajime; Yokobori, Shin-Ichi

F3.2-0005-24 10:15 - 10:30

The Space Experiment of the Exo-ecosystem
Cui, Duo

Coffee Break

Astrobiological space experiments

Chair: Rettberg, Petra
Room: EC1-212

F3.2-0006-24 11:00 - 11:15

Vacuum concentration of organic biomolecules with ionic liquids for in-situ astrobiology instruments
Ulibarri, Zach; Bell, Stefan; Hofmann, Amy; Petro, Elaine

F3.2-0007-24 11:15 - 11:30

Prebiotic synthesis on hydrothermal chimney and effect of polarization of catalyst for the electrotrophic theory of emergence of Life
Pillot, Guillaume; Santiago, Óscar; Rommevaux, Céline; Liebgott, Pierre-Pol; Kerzenmacher, Sven

F3.2-0008-24 11:30 - 11:50

Geomicrobiology investigation of Moonmilk speleothems at Mt. Cucco (Perugia, Italy) cave
Paladini, Mattia; Pacelli, Claudia; Cavalazzi, Barbara; Zucconi, Laura; Cassaro, Alessia; Franzoni, Eugenia; Mazzocca, Massimiliano; Frigeri, Alessandro

F3.2-0009-24 11:50 - 12:10

Terrestrial Analogue Sites in India for Astrobiological Exploration
V J, Rajesh; Kumari, Preeti

F3.2-0010-24 12:10 - 12:30

IR-COASTER: an astrobiology and astrochemistry experiment for the International Space Station. Ready for launch in 2024
Cottin, Hervé; Stalport, Fabien; Grand, Noel; Pastore, Juliette; Gonthier, Rachel; Carrasco, Nathalie; Feron, Anais; Feingesicht, Maxime; Gaimoz, Cecile; Gomes, Sarah; Gourichon, Mathieu; Harge, Kristian; Huet, Florian; Landsheere, Xavier; Louison, Inès; Mignon, Florent; Mombazet, Mombazet; Triquet, Sylvain; Viallon, Lisa; Zapf, Pascal; Savin de Larclause, Isabelle; Chaput, Didier; Mustin, Christian

Lunch Break

Astrobiological lab experiments, analogue sites

Chair: Cottin, Hervé
Room: EC1-212

F3.2-0011-24 15:00 - 15:20

Behavior of Organic Molecules in Aqueous Solution Exposed to Gamma Radiation: A Numerical Modeling Perspective
Paredes-Arriaga, Alejandro; Rivera, A.l.; Frías, D.; Negron-Mendoza, Alicia

F3.2-0012-24 (WITHDRAWN) 15:20 - 15:35

Quantifying variables in search for habitable environments on Mars and beyond
Singh, Deepali; Acharyya, Kinsuk; Kumar Sinha, Rishitosh

F3.2-0013-24 15:35 - 15:55

Exploring Europa's biological potential using laboratory simulations
Del-Moral, Alvaro; Olsson-Francis, Karen; Fox-Powell, Mark; Pearson, Vic

F3.2-0014-24 15:55 - 16:15

The physiological response of Buttiauxella sp. MASE-IM-9 and Salinisphaera shabanensis from Mars-like environments on Earth to perchlorates
Rettberg, Petra; Gillet de Chalonge, Louise; Heinz, Jacob; Doellinger, Joerg; Lasch, Peter; Beblo-Vranesevic, Kristina

F3.2-0015-24 16:15 - 16:30

Immune response to human pathogens exposed to simulated Mars conditions – Implications to human health on Mars
Zaccaria, Tommaso; Bulut, Özlem; Valido Ferreira, Anaisa; Domínguez-andrés, Jorge; de Jonge, Marien I.; Netea, Mihai; Beblo-Vranesevic, Kristina; Rettberg, Petra

Thu, Jul 18, 2024

F3.2 Astrobiology and Exploration

Main Scientific Organizer: Rettberg, Petra
Deputy Organizer: Antunes, André

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-310 F3.2-0016-24

On the stochastic processes of the interstellar travels of the Extraterrestrials and formulations to estimate the minimum and maximum lengths of a stochastic process of the interstellar travels of the Extraterrestrials
Belen, Selma-Christina; Weber, Gerhard-Wilhelm; Carter, Brad

TWT-311 F3.2-0017-24

Spatial Daisyworld as a Simple Model of Habitability for Exoplanets with Variable Insolation
Karelin, Georgii

TWT-312 F3.2-0018-24

Introduction to UV Exposure Sample Units of China Space Station
Wang, Chao; Zhang, Meng; Chenyang, Zhao; Liu, Bing

F3.2-0019-24 (WITHDRAWN)

The Mars Microbial Survival Model: Determining Bioload Reductions on Landed Spacecraft
Bischof, Grace; Ordinaria, Ruella; Moores, John; Schuerger, Andrew

TWT-314 F3.2-0020-24

Advancing Spectroscopic Analysis of Large Molecules in Space: A Master Project in Astrochemistry
Horvat, Ivan; Fazel Hesar, Fatemeh; Foing, Bernard H.; Balfe, Molly; Robertson, Caitlin; Laffey, Jack; Harvey, Matthew

Thu, Jul 18, 2024

F3.4 Interstellar Organic Molecules in the Age of JWST and ALMA

Main Scientific Organizer: Garrod, Robin
Deputy Organizer: Herbst, Eric

Observations

Chair: Garrod, Robin
Room: EC1-213

F3.4-0001-24 11:00 - 11:30

A New Era in Astrochemistry
Milam, Stefanie

F3.4-0002-24 11:30 - 11:50

Tracing the detailed ice composition carved in the infrared absorption features using the JWST spectra
Kim, Jaeyeong; Yang, Yao-Lun; Lee, Jeong-Eun; Kim, Chul-Hwan; Jeong, Woong-Seob

F3.4-0003-24 11:50 - 12:10

New Studies on Carbon-Chain Chemistry and Future Plan to Reveal the Lifecycle of Carbon in the Interstellar Medium with ALMA and JWST
Taniguchi, Kotomi; Lau, Ryan; Saito, Masao

F3.4-0004-24 12:10 - 12:30

Complex organic molecules in the gas and in ices
Nazari, Pooneh

Coffee Break

Observations

Chair: Scibelli, Samantha
Room: EC1-213

F3.4-0005-24 15:00 - 15:30

What do JWST observations of the Orion Bar tell us about organic matter in the space?
Onaka, Takashi; Berne´, Olivier; Habart, Emilie; Peeters, Els Team: PDR4All ERS team p. 456

F3.4-0006-24 15:30 - 15:50

Outflow Shocked Regions in a Very Young Protostellar source
Okoda, Yuki; Yang, Yao-Lun Team: CORINOS p. 449

F3.4-0007-24 15:50 - 16:10

Modelling Infrared and Submillimeter Molecular Lines from Circumplanetary Disks
Hu, Bochao; Nomura, Hideko; Dong, Ruobing; Tsukagoshi, Takashi; Kawabe, Ryohei; Millar, Tom

F3.4-0008-24 16:10 - 16:30

ALMA Spectral Survey of An eruptive Young star, V883 Ori (ASSAY): Freshly Sublimated Complex Organic Molecules (COMs) in the Keplerian Disk
Jeong, Jae-Hong; Lee, Jeong-Eun; Lee, Seonjae; Baek, Giseon; Kang, Ji-Hyun; Lee, Seokho; Kim, Chul-Hwan; Yun, Hyeong-Sik; Aikawa, Yuri; Herczeg, Gregory J.; Johnstone, Doug; Cieza, Lucas

Thu, Jul 18, 2024

F4.1 Advances in Life Support Technologies and Test Bed Facilities

Main Scientific Organizer: Verseux, Cyprien
Deputy Organizer: Poulet, Lucie

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-315 F4.1-0021-24

Biomining: Metal Extraction for In Situ Resource Utilization of Lunar Minerals
Seto, Emily; Bouey, Natasha; Bywaters, Kathryn; Gabrielli, Paolo; Hubbard, Kevin; Zacny, Kris

TWT-316 F4.1-0022-24

An Analysis of the Use of Plastic Degradation by Microbes in Orbit
Gollarza, Santiago; Simmons, Kevin

TWT-317 F4.1-0023-24

Hydrogels as a growth substrate for plant cultivation in space and regolith-based agriculture.
Miklave, Nicholas; Hasenstein, Karl H.

TWT-318 F4.1-0024-24

EDEN 2.0 greenhouse design study for Neumayer Station III in Antarctica
Kim, Kyunghwan; Bunchek, Jess; Schubert, Daniel; Vrakking, Vincent; Dorn, Markus; Philpot, Claudia

TWT-319 F4.1-0025-24

From Cyanobacterium to Biostimulant: L. indica in Space Agriculture
Renaud, Cécile; Wattiez, Ruddy

TWT-320 F4.1-0026-24

Current status and Prospect of Life Support System Development in KARI
Lee, Joo-Hee; Kim, Younkyu; Choi, Gi Hyuk

F4.1-0027-24 (WITHDRAWN)

Siderophilic Cyanobacteria Linking In-situ Resources Utilization and Biological Life Support Systems
Brown, Igor

Thu, Jul 18, 2024

F4.2 Influence of Spaceflight Environments on Biological Systems

Main Scientific Organizer: Nechitailo, Galina S.
Deputy Organizer: Kondyurin, Alexey

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-321 F4.2-0013-24

Global approach to modelling ecosystems in Space: Insights from the SCAMPI Project
Soulier, Guillaume; Carrico, Jordan; Ben Slimane, Tarek Team: SCAMPI p. 457

TWT-322 F4.2-0014-24

A wearable-based system to reduce space motion sickness by multi-sensory pre-habituation
Vollette, Carole-Anne; Bockisch, Christopher; Straumann, Dominik; Bertolini, Giovanni

Thu, Jul 18, 2024

F4.3 Space Food and Nutrition

Main Scientific Organizer: Katayama, Naomi
Deputy Organizer: Kitaya, Yoshiaki

Harbs, Vegetables,and Insects

Chair: Katayama, Naomi
Room: EC1-211

F4.3-0001-24 09:00 - 09:15

Possibility of using Herbs as space food - Asian Herb in space mission 2021 with taste, smell, and chewing ability -
Katayama, Naomi; Yamashita, Masamichi; Kitaya, Yoshiaki; Soga, Kouichi Team: Space Agriculture Task Force p. 458

F4.3-0002-24 09:15 - 09:30

Psychophysiological and cognitive effects of coriander plants on people in small and confined spaces
Li, Zhaoming; Zhang, WenZhu; Cui, Jingxian; Liu, Hong; Liu, Hui

F4.3-0003-24 09:30 - 09:45

The sweetpotato culture system in the CELSS for supporting human habitation in space
Kitaya, Yoshiaki; Kitaya, Yoshiaki

F4.3-0004-24 09:45 - 10:00

Desiccation stress-induced leaf senescence hastens grain filling in Soybean
Satpute, Gyanesh Kumar; Gupta, Sanjay; Ratnaparkhe, Milind B.; Kumawat, Giriraj; Choyal, Prince; Vangala, Rajesh; Verma, Rakesh Kumar; Chandra, Subhash; Rajput, Laxman Singh; Kumar, Sanjeev; Jamnotia, Charu; Pandey, Sanjay Kumar

F4.3-0005-24 10:00 - 10:15

Pick-and-eat space crop production flight testing on the International Space Station
Bunchek, Jess; Bunchek, Jess; Hummerick, Mary; Spencer, Lashelle; Romeyn, Matthew; Young, Millennia; Morrow, Robert; Mitchell, Cary; Douglas, Grace; Wheeler, Raymond; Massa, Gioia

F4.3-0006-24 10:15 - 10:30

Examining insects as part of life-support systems for space explorations
Berggren, Åsa; Guidetti, Roberto; Bruun Jensen, Annette; Copplestone, David; Heer, Martina; Pittia, Paola

Coffee Break

Crops, Nutrition, Lunar, and Mars

Chair: Kitaya, Yoshiaki
Room: EC1-211

F4.3-0007-24 (WITHDRAWN) 11:00 - 11:15

Human urine precipitates as a phosphorus source for lettuce in hydroponics for long-term crewed space missions
Giménez de Azcárate Bordóns, Icíar; Oberson, Astrid; Udert, Kai; Kretzschmar, Ruben; Verel, René; Pellegri, Geremia; Frossard, Emmanuel

F4.3-0008-24 11:15 - 11:30

Innovating Space Foods: Development of a continuous micro-flow process for manufacturing customized fortified beverages for space exploration
Schmidt, Svenja; Yang, Ni; Tran, Nam; Fisk, Ian; Hessel, Volker

F4.3-0009-24 11:30 - 11:45

Nutrition of Antarctic-grown crops to supplement the crew diet, with applications for spaceflight
Bunchek, Jess; Hummerick, Mary; Franco, Carolina; Williams, Dale; Spencer, Lashelle; Ramalho, Tiago; Vrakking, Vincent; Schubert, Daniel; Massa, Gioia; Fritsche, Ralph; Wheeler, Raymond

F4.3-0010-24 (WITHDRAWN) 11:45 - 12:00

Present and Future Perspectives on In-Situ Resource Utilization for Lunar Agriculture
Ropero, Alvaro; Foing, Bernard H.; Fazel Hesar, Fatemeh; Grubbs, Patrick; Torchia, Costanza; Gelman, Adam; Warnock, Lawrence; Fleischer, Louise; Galvan Lobo, Jorge

F4.3-0011-24 12:00 - 12:15

Bio-improved lunar soil simulant improves the cultivated wheat's production without food security risk
Yao, Zhikai; Feng, Jiajie; Liao, Boyang; Liu, Hong

F4.3-0012-24 12:15 - 12:30

Optimization and validation of the CubeSat bioreactor for cultivation of potatoes resistant to highly saline soils from Pampas de la Joya, a Peruvian analogue to soils from Planet Mars
Valdivia-Silva, Julio E.; Lezama, Jinmi; Mckay, Chris

Thu, Jul 18, 2024

F4.3 Space Food and Nutrition

Main Scientific Organizer: Katayama, Naomi
Deputy Organizer: Kitaya, Yoshiaki

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-323 F4.3-0013-24

Exploring the Past and Future of Korean Space Food Development
Hong, Jung Sun; Kim, Ha Ram; Chun, Yong Gi; Sung, Jung Min; Kim, Bum Keun

TWT-324 F4.3-0014-24

Do moss plants dream of space pioneers? : The extreme stress tolerance of the moss, Physcomitrium patens
Maeng, Chang-Hyun; Nakamura, Keita; Takahashi, Sayaka; Mita, Hajime; Yoshida, Kumi; Shimamura, Masaki; Kume, Atsushi; Hiwatashi, Yuji; Fujita, Tomomichi

Thu, Jul 18, 2024

F5.2 Exploring the Space Exposome and Approaches for Assessing Spaceflight-Associated Human Health Risks

Main Scientific Organizer: Huff, Janice
Deputy Organizer: Laiakis, Evagelia; Werneth, Charles

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-325 F5.2-0019-24
NASA Open Science Data Repository for Space Biology Data Access
Saravia-Butler, Amanda; Scott, Ryan; Lopez, Danielle; Sanders, Lauren; Gebre, Samrawit; Costes, Sylvain

TWT-326 F5.2-0020-24
Architectural Properties' Impact on Cognition – Ground Studies and Space Implementation
Magkos, Michail; Forsman, Mikael; Elçadi, Guilherme Team: APISC - ICE - KTH p. 448

TWT-327 F5.2-0021-24
Detection of butyrate content in feces based on microbial sensors for monitoring intestinal health under microgravity environment
Wu, Ruipeng; Li, Zhuohan; Liu, Lingying; Lin, Fankai

TWT-328 F5.2-0022-24
The Space Medicine Educational Program in Japan
Terada, Masahiro

Thu, Jul 18, 2024

G0.1 Gravitational Effects on Physico-Chemical Processes

Main Scientific Organizer: Porter, Jeff
Deputy Organizer: Yano, Taishi

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-329 G0.1-0013-24
Control of quasi-equilibrium state of annular flow through reinforcement learning
Duan, Li; Kang, Qi

TWT-330 G0.1-0014-24
Soot properties of non-buoyant laminar diffusion flames with the addition of physical and chemical agents
Wang, Shuangfeng; Zhu, Feng

TWT-331 G0.1-0015-24
The Mechanism of Droplet Thermocapillary Migration Coupled with Multi-Physical Fields
Ye, Zhijun; Chen, Yi; Yang, Chao; Duan, Li; Kang, Qi

Thu, Jul 18, 2024

G0.3 Influence of Free Space Environoment on the Behavior of Materials

Main Scientific Organizer: Kondyurin, Alexey
Deputy Organizer: Minow, Joseph

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-332 G0.3-0006-24
Radiation Qualification Process for a Non-RHA Commercial Off the Shelf (COTS) [Case Study]
Albakri, Ahmad; Alsubaihi, Abdullah; Albakri, Meteb

TWT-333 G0.3-0007-24
Quantifying the Effects of Electron Shot Noise on a Current Biased Antenna
Ember, Winry; Pulupa, Marc; Bale, Stuart

TWT-334 G0.3-0008-24
Curing composite material in stratosphere
Kondyurin, Alexey; Chudinov, Viacheslav; Terpugov, Viktor

Thu, Jul 18, 2024

H0.1 Commission H Highlight Talks

Main Scientific Organizer: Laemmerzahl, Claus

Room: EC1-216

H0.1-0001-24 (WITHDRAWN) 15:00 - 15:30
NASA's Cold Atom Lab: Six Years of Quantum Science on the International Space Station
Williams, Jason; Oudrhiri, Kamal Team: Cold Atom Lab Team p. 449

H0.1-0002-24 15:30 - 16:00
The Physical and Materials Sciences Program at the German Space Agency
Kiewisch, Karin

Thu, Jul 18, 2024

H0.2 Gravitation, Dark Energy and Matter

Main Scientific Organizer: Bertolami, Orfeu

Room: EC1-216

H0.2-0001-24 09:00 - 09:20
Domain wall dark matter and gnss atomic clocks within the galileo for science project
Di Marco, Alessandro; Sapio, Feliciana; Visco, Massimo; Lucchesi, David; Cinelli, Marco; Fiorenza, Emliano; Lefevre, Carlo; Loffredo, Pasqualino; Lucente, Marco; Magnafico, Carmelo; Peron, Roberto; Santoli, Francesco; Vespe, Francesco

H0.2-0002-24 09:20 - 09:40
Post-Newtonian Dark Matter Halos
Lopez, Ericson

H0.2-0003-24 09:40 - 10:00
A Class of Holographic Dark Energy in Brane World Cosmology
Mitra, Arpan Krishna; Chanda, Anirban; Dey, Sagar; Ghose, Souvik; Paul, Bikash Chandra

H0.2-0004-24 10:00 - 10:20
MAPP, a Key to the Dark Portal?
Popa, Vlad Team: MoEDAL Collaboration p. 455

Coffee Break

Room: EC1-216

H0.2-0005-24 11:00 - 11:20
An indirect search for dark matter with a combined analysis of dwarf spheroidal galaxies from VERITAS
Tak, Donggeun Team: VERITAS collaboration p. 461

H0.2-0006-24 11:20 - 11:40
Examining the Shapiro Time Delay at Earth-Sun Saddle Point in Relativistic MONDian Gravity
Tian, Yong; Nester, James M.; Ko, Chung-Ming; Duann, Yi

H0.2-0007-24 11:40 - 12:00
A Correlation of Einstein's Cosmological Constant in Anti-de Sitter Spacetime Without Negative Vacuum Pressure
Griswold, Benjamin; Evrard Vescio, Elliott; Simmons, Kevin

H0.2-0008-24 12:00 - 12:20 (solicited)
Compact Stars Under the purview of a modified theory of gravity
das, Samprity; Chattopadhyay, Surajit

Thu, Jul 18, 2024

H0.2 Gravitation, Dark Energy and Matter

Main Scientific Organizer: Bertolami, Orfeu

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-335 H0.2-0009-24
Using Newtonian Gravitation giving results well from Universe level to Galaxy level to Solar system level to Earth level to Electron level to Energy level and to Nanobio Particle level now using SITA simulations
Naga Parameswara Gupta, Satyavarapu

TWT-336 H0.2-0010-24
Potential dark matter annihilation signals and the Very Large Area gamma-ray Space Telescope
Fan, Yi-Zhong

TWT-337 H0.2-0011-24
Unraveling the Mysteries of Dark Energy: Exploring the Origins of the Cosmos
Seyidova, Nubar

Thu, Jul 18, 2024

H0.4 Gravitational Waves

Main Scientific Organizer: Vallisneri, Michele
Deputy Organizer: Armano, Michele

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-338 H0.4-0011-24
CAS system design for LISA Mission
Chiritoi, Gabriel; Popescu, Eugeniu Mihnea; Popescu, Florin Adrian; Simionescu, Georgiana; Constantin, Florin Ioan; Cosac, Diana

TWT-339 H0.4-0012-24
Tests of the Space Electrostatic Accelerometer in Drop
Yu, Jianbo; Wang, Liang; Wu, Shuchao; Zhou, Zebing

TWT-340 H0.4-0013-24
Study on Micro-newton-scale Cold Gas Thruster and Thrust Performance
Yang, Chao; He, Jianwu; Duan, Li; Kang, Qi

Thu, Jul 18, 2024

H0.5 Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics

Main Scientific Organizer: Peron, Roberto
Deputy Organizer: Müller, Jürgen

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-341 H0.5-0016-24
The Calculation Method of SISA and its Initial Integrity Performance Evaluation for BDS-3
Cao, Yueling; Zhou, Shanshi; Qu, Weijing; Chen, Yanling

TWT-342 H0.5-0017-24
Precise Orbit Determination using Satellite Laser Ranging and Inter-satellite Link observations for BDS-3 satellites
Qu, Weijing; Huang, Yong

Thu, Jul 18, 2024

PCB.2 Small Satellites for Capacity Building

Main Scientific Organizer: Gabriel, Carlos
Deputy Organizer: Chandran, Amal

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-343 PCB.2-0013-24
Mission Planning and Scientific Applications of the Kinetic Optical Yaw Observer (KOYO) CubeSat Mission
Chiu, Yi-Chung; Wang, Yu-Shun; Chang, Loren

Thu, Jul 18, 2024

PE.1 Space Explorers in Schools - Empowering the Next Generation of Researchers

Main Scientific Organizer: Doran, Rosa
Deputy Organizer: Jeong, Haeim; Rojas, Gustavo

Room: EC1-314

PE.1-0009-24 09:00 - 10:30
Lunar Science - Jungjoo Sohn & Hae-Ju Noh (Korea National University of Education)
Doran, Rosa

Coffee Break

Room: EC1-314

PE.1-0010-24 11:00 - 12:30
Astrobiology - In-Ok Song (Korea Science Academy of KAIST)
Doran, Rosa

Lunch Break

Room: EC1-314

PE.1-0011-24 15:00 - 16:30
Observe COSPAR Program I
Doran, Rosa

Coffee Break

Room: EC1-314

PE.1-0012-24 17:00 - 18:30
Observe COSPAR Program II
Doran, Rosa

PE.2 Current Trends, Initiatives And Research In Education And Outreach For Space Sciences

Main Scientific Organizer: Rojas, Gustavo
Deputy Organizer: Benitez Herrera, Sandra

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-344 PE.2-0017-24
Educators and learners as stewards of a sustainable future
Doran, Rosa; Rojas, Gustavo

TWT-345 PE.2-0018-24
Students as Planetary Defenders
Rojas, Gustavo; Doran, Rosa

TWT-346 PE.2-0019-24
Archives for Modern Korean Astronomy and Space Science
Choi, Youngsil; Cho, Kyung-Suk; Seo, Yoon Kyung; Kim, Roksoon

TWT-347 PE.2-0020-24
Development of a low-cost hardware-in-the-loop system for teaching estimation algorithms in satellite formations using COTS electronics
Forero, David; Rodríguez Polo, Óscar; Esteban, Segundo; Forero, Juan David

TWT-348 PE.2-0021-24
Space eco literacy as a public good for community enabling
Venkataramaiah, Jagannatha

TWT-349 PE.2-0022-24
Cosmic Classrooms: How Nurturing Curiosity and Engagement in Space Education will Ensure Tomorrow's Successful Space Exploration
Chaid, Rym

TWT-350 PE.2-0023-24
Egypt's Utilization of Space Applications for Development
Morcos, Abd El Fady

Thu, Jul 18, 2024

PEDAS.1 A Sustainable Space Exploration: from the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments

Main Scientific Organizer: Frueh, Carolin
Deputy Organizer: Pardini, Carmen

Short Course: Optical Observations: Detection, Tracking & Characterization of Known and Unknown Human-Made Space Objects

Chair: Frueh, Carolin
Room: EC1-218

PEDAS.1-0029-24 09:00 - 09:30 (solicited)
Short Course: Optical Observations: Detection, Tracking & Characterization of Known and Unknown Human-Made Space Objects, I
Schildknecht, Thomas

PEDAS.1-0030-24 09:30 - 10:00 (solicited)
Short Course: Optical Observations: Detection, Tracking & Characterization of Known and Unknown Human-Made Space Objects, II
Schildknecht, Thomas

PEDAS.1-0031-24 10:00 - 10:30 (solicited)
Short Course: Optical Observations: Detection, Tracking & Characterization of Known and Unknown Human-Made Space Objects, III
Schildknecht, Thomas

Coffee Break

Object Growth, Fragmentations, Sources and Sinks

Chair: Schildknecht, Thomas
Room: EC1-218

PEDAS.1-0032-24 11:00 - 11:15
A scientific approach for orbital fragmentation root cause analyses, illustrated for H-IIA 202 fairing fragmentations
Wacker, Daniel Raphael; Wiedemann, Carsten; Silvestri, Simona

PEDAS.1-0033-24 11:15 - 11:30
Investigation into Fragmentation of the Russian EKRAN 2 Spacecraft
Okudaira, Kiyoaki; Hanada, Toshiya; Yoshimura, Yasuhiro; Nakajima, Kensuke; Hata, Hidehiro; Nitta, Kumi

PEDAS.1-0034-24 11:30 - 11:45
Identification of Colliding Objects from In-situ Debris Measurements
Miyoshi, Kaito; Hanada, Toshiya; Yoshimura, Yasuhiro; Chen, Hongru

PEDAS.1-0035-24 11:45 - 12:00
ODIN Space: Enhancing Space Safety with AI-Driven Detection of Sub-Centimetre Debris
Lieu, Maggie; New, James

PEDAS.1-0036-24 12:00 - 12:15

PySSEM: An Open-Source Python Library and User Interface for Orbital Debris and Source Sink Environmental Modelling
Brownhall, Indigo; Lifson, Miles; Constant, Charles; Lavezzi, Giovanni; Felice Harris, Maya; Linares, Richard; Ziebart, Marek; Bhattarai, Santosh

PEDAS.1-0037-24 12:15 - 12:30

An analytical study on comparison of space objects growth rate versus ground-based sensor deployment rate for SSA/SDA/STM purposes
Nayyer, Mahhad; Kim, Kangsan; Maldonado-Romo, Javier; Stone, Jordan; Matari, Faten; Baranwal, Prerna; Thangavel, Kathiravan; Ayub, Muhammad Rehmoz Salahuddin; Bokhari, Syed Hussain; Raviraja, Samiksha

Lunch Break

Socio-Economic and Ethical Effects of Space Debris and Zero-Debris for Space Fairing

Chair: Frueh, Carolin
Room: EC1-218

PEDAS.1-0038-24 15:00 - 15:30

Enabling a safe and sustainable commercial space economy!
Mehta, Piyush

PEDAS.1-0039-24 15:30 - 16:00 (solicited)

ESA's Zero Debris Approach: publication of ESA's space debris mitigation requirements
Flohrer, Tim; Ventura, Sergio; Villar, Paloma; Lemmens, Stijn; Soares, Tiago; de Courson, Sibyl-Anna; Letizia, Francesca

PEDAS.1-0040-24 16:00 - 16:15

The ethical implications of mega-constellations satellites' space debris - unintentional harm
Segobaetso, Benjamin

PEDAS.1-0041-24 16:15 - 16:30

Demonstration of Satellite Servicing on an air-bearing Table
Huwald, Markus; Ben Larbi, Mohamed Khalil; Niebuhr, Christian; Schervan, Thomas; Zeis, Christopher; Stoll, Enrico; Schröder, Kai-Uwe

Coffee Break

Next Steps in Mitigation and Coordination for Space Sustainability

Chair: Deleflie, Florent
Room: EC1-218

PEDAS.1-0042-24 17:00 - 17:30 (solicited)

Mitigating Impact of Space Activities on the Environment: Linking Science to Public Policy
Christensen, Ian; Weeden, Brian

PEDAS.1-0043-24 17:30 - 18:00 (solicited)

Estimating the Socioeconomic Cost of Space Debris : The Case of Korea
Lee, Chanhee; Hong, Jong Ho; Kang, Jinyoung; Kim, Keewon; Kim, Habin; Seo, Heeyoung

PEDAS.1-0044-24 18:00 - 18:15 (solicited)

Orbit Domain Calibration for Space Surveillance & Tracking (ODC4SST): Design Concept, Network Selection & Initial Validation Tests
Bhattarai, Santosh; Brownhall, Indigo; Constant, Charles; Peto-Madew, Felicia; Rotherham, Eugene

Thu, Jul 18, 2024

PEDAS.1 A Sustainable Space Exploration: from the Mitigation of Space Debris in Earth's Orbit to the Safeguard of Planetary Environments

Main Scientific Organizer: Frueh, Carolin
Deputy Organizer: Pardini, Carmen

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-351 PEDAS.1-0045-24

OrbitNet: Advanced 2D Keypoint-Based Detection and Tracking of LEO Resident Space Objects Using Deep Convolutional Neural Network
Jeong, Yeonjeong; Qashoa, Randa; Lee, Regina S. K.; Sohn, Gunho

Thu, Jul 18, 2024

PIR.1 Near-term Exploration of the Interstellar Medium,: Progress and Status

Main Scientific Organizer: Brandt, Pontus
Deputy Organizer: Provornikova, Elena

Room: CON-201

PIR.1-0001-24 09:00 - 09:20 (solicited)

From the Sun to the Stars: In Situ Exploration from the Outer Solar System to Interstellar Space
McNutt, Ralph; Wimmer-Schweingruber, Robert; Gruntman, Mike; Krimigis, Stamatios; Roelof, Edmond; Brandt, Pontus; Vernon, Steven; Paul, Michael; Provornikova, Elena; Mastandrea, James

PIR.1-0002-24 09:20 - 09:40 (solicited)

Update on the China's Heliospheric Boundary Exploration Mission: Interstellar Express
Wang, Chi; Li, Hui; Guo, Xiaocheng

PIR.1-0003-24 09:40 - 10:00 (solicited)

Stella science for interstellar probe
Wimmer-Schweingruber, Robert; Barabash, Stas; André, Nicolas; Brandt, Pontus; Iess, Luciano; Lavraud, Benoit; McNutt, Ralph; Provornikova, Elena; Quemerais, Eric; Wicks, Robert; Wieser, Martin; Wurz, Peter

PIR.1-0004-24 10:00 - 10:20 (solicited)

Stella: Europe's contribution to a NASA interstellar probe
Barabash, Stanislav; Wimmer-Schweingruber, Robert; André, Nicolas; Brandt, Pontus; Iess, Luciano; Lavraud, Benoit; McNutt, Ralph; Provornikova, Elena; Quemerais, Eric; Wicks, Robert; Wieser, Martin; Wurz, Peter

Coffee Break

Room: CON-201

PIR.1-0005-24 11:00 - 11:15 (solicited)

The Sun's Trajectory in the Last 10 Million years and possible terrestrial implications on Climate Evolution
Opher, Merav

PIR.1-0006-24 11:15 - 11:30

Interstellar Conditions around the Heliosphere
Swaczyna, Paweł; Bzowski, Maciej; Heerikhuisen, Jacob; Kubiak, Marzena A.; Rahmanifard, Fatemeh; Zirnstein, Eric; Fuselier, Stephen; Galli, Andre; McComas, David; Möbius, Eberhard; Schwadron, Nathan

PIR.1-0007-24 11:30 - 11:45 (solicited)

Modeling Lyman-Alpha Emission in the Local Interstellar Medium as Observed by New Horizons
Bush, Rewa; Redfield, Seth; Gladstone, Randy

PIR.1-0008-24 11:45 - 12:00 (solicited)

Ly in a "croissant-shaped" heliosphere
Powell, Erick; Opher, Merav; Kornbleuth, Marc; Baliukin, Igor; Michael, Adam; Wood, Brian; Izmodenov, Vladislav; Toth, Gabor; Tenishev, Valeriy; Chen, Yuxi; Quemerais, Eric; Brandt, Pontus; Gladstone, Randy; Stern, Alan; Provornikova, Elena; Verbiscer, Anne; Poppe, Andrew; Parker, Joel; Singer, Kelsi

PIR.1-0009-24 12:00 - 12:15 (solicited)

Science Drivers for Improved Observations of Lyman-alpha Spectra in the Interplanetary Medium
Mayyasi, Majd; Atz, Emil; Clarke, John; Walsh, Brian; Lierle, Patrick

PIR.1-0010-24 12:15 - 12:30

A Large Survey of UV Absorption in New Directions in the Local Interstellar Medium
Nisak, Azmain; Redfield, Seth; Linsky, Jeffrey; Youngblood, Allison; Wood, Brian

Lunch Break

Room: CON-201

PIR.1-0011-24 15:00 - 15:15

Exploring the Expanding Frontier of the Outer Solar System, Outer Heliosphere, Very Local Interstellar Medium and Beyond
Brandt, Pontus; Poppe, Andrew; Provornikova, Elena; Verbiscer, Anne; Porter, Simon; Elliott, Heather; Hill, Matthew; Kollmann, Peter; McNutt, Ralph; Grundy, William; Benecchi, Susan; Lauer, Tod; Parker, Joel; Gladstone, Randy; Becker, Tracy; Singer, Kelsi; Stern, Alan; Opher, Merav; Doner, Alex; Horanyi, Mihaly; Redfield, Seth; Bush, Rewa

PIR.1-0012-24 15:15 - 15:30 (solicited)

The Exploration of the Outer Solar System by NASA's New Horizons Mission
Verbiscer, Anne; Porter, Simon; Fraser, Wesley; Kavelaars, J J; Benecchi, Susan; Brandt, Pontus; Buie, Marc; Gerdes, David; Ito, Takashi; Lin, Hsing Wen; Parker, Joel; Peltier, Lowell; Singer, Kelsi; Stern, Alan; Yoshida, Fumi Team: New Horizons Planetary Theme and LORRI Teams p. 455

PIR.1-0013-24 15:30 - 15:45

Observing Kuiper Belt Objects with Interstellar Probe Based on New Horizons Experience
Porter, Simon; Verbiscer, Anne; Benecchi, Susan; Grundy, William; Singer, Kelsi; Parker, Joel; Brandt, Pontus; Stern, Alan Team: New Horizons Science Team p. 455

PIR.1-0014-24 15:45 - 16:00 (solicited)

Interstellar Probe: a goldmine for interstellar dust research
Sterken, Veerle; Hunziker, Silvan

PIR.1-0015-24 16:00 - 16:15 (solicited)

The effects of the heliospheric interface on the distribution of interstellar dust particles near the Sun
Godenko, Egor; Izmodenov, Vladislav

PIR.1-0016-24 16:15 - 16:30 (solicited)

Measurement of the Composition of the Local Interstellar Cloud with the Interstellar Probe Mission
Wurz, Peter; Fausch, Rico; Gasser, Jonathan; Galli, Andre; Vorburger, Audrey; Brandt, Pontus; Barabash, Stas

Coffee Break

Room: CON-201

PIR.1-0017-24 17:00 - 17:15 (solicited)

Interstellar Mapping and Acceleration Probe (IMAP) mission: Exploring our solar neighborhood
Gkioulidou, Matina

PIR.1-0018-24 17:15 - 17:30 (solicited)

Solar activity "breathing" of the outer heliosphere
Sokol, Justyna M.

PIR.1-0019-24 17:30 - 17:45 (solicited)

Past and Future Encounters with the Solar Wind Termination Shock
Hill, Matthew; Nikoukar, Romina; Decker, Robert; Elliott, Heather; Richardson, John; Kollmann, Peter; Mostafavi, Parisa; McNutt, Ralph; Bagenal, Fran; Brandt, Pontus; Brown, Lawrence; McComas, David; Opher, Merav; Parker, Joel; Poppe, Andrew; Provornikova, Elena; Stern, Alan; Singer, Kelsi; Verbiscer, Anne

PIR.1-0020-24 17:45 - 18:00 (solicited)

Global modeling of solar wind interaction with local interstellar medium: incorporating pickup ions, helium, and electrons for self-consistent time-dependent analysis with kinetic neutral atoms
Fraternale, Federico; Pogorelov, Nikolai; Bera, Ratan; Zhang, Ming

PIR.1-0021-24 18:00 - 18:15 (solicited)

Combined in-situ particle and fields measurements with remotely sensed ENAs from a future Interstellar Probe
Dialynas, Konstantinos; Sterken, Veerle; Brandt, Pontus; Burlaga, Leonard; Berdichevsky, Daniel; Decker, Robert; Della Torre, Stefano; Demajistre, Robert; Galli, Andre; Gkioulidou, Matina; Hill, Matthew; Krimigis, Stamatios; Kornbleuth, Marc; Kurth, William; Lavraud, Benoit; McNutt, Ralph; Mitchell, Donald; Mostafavi, Parisa; Opher, Merav; Provornikova, Elena; Roelof, Edmond; Rancoita, Pier Giorgio; Richardson, John; Roussos, Elias; Sokol, Justyna M.; La Vacca, Giuseppe; Chen, Thomas

PIR.1-0022-24 18:15 - 18:30 (solicited)

New evidence of magnetic reconnection in the inner heliosheath and heliopause from the Voyagers
Turner, Drew; Zhao, Lingling; Eriksson, Stefan; Lavraud, Benoit; Opher, Merav

Thu, Jul 18, 2024

PIR.1 Near-term Exploration of the Interstellar Medium,: Progress and Status

Main Scientific Organizer: Brandt, Pontus
Deputy Organizer: Provornikova, Elena

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-352 PIR.1-0026-24

Magnetic reconnection in the heliosheath and at the heliopause: recent analysis, expectations and requirements for thermal ion-electron measurements on an interstellar mission
Lavraud, Benoit; Blanc, Michel; Turner, Drew; Fargette, Naïs; Dialynas, Konstantinos; Bernard, Baptiste; Sadou-Boudey, Tiffany; Richardson, John; Zhao, Lingling; Phan, Tai; Opher, Merav; Provornikova, Elena; Kornbleuth, Marc; Mostafavi, Parisa; Fedorov, Andrei; Fuselier, Stephen; Drake, James; Swisdak, Marc; Chen, Thomas; Kucharek, Harald; Kollmann, Peter; André, Nicolas; Aunai, Nicolas; Genot, Vincent; Toledo-Redondo, Sergio; Wimmer-Schweingruber, Robert; Barabash, Stas; Brandt, Pontus; McNutt, Ralph

TWT-353 PIR.1-0027-24

Magnetometer capability enabled by new fluxgate core technology
Miles, David

PIR.1-0028-24 (WITHDRAWN)

RADIOISOTOPE THERMOELECTRIC FORCES AND TORQUES ON OUTER SOLAR SYSTEM AND INTERSTELLAR SPACECRAFT
Rogers, Gabe

TWT-355 PIR.1-0029-24

First Detection of a Resolved Astrosphere Around a Main Sequence G-Star by Chandra
Lisse, Carey Team: Chandra HD61005 Astrosphere Team p. 449

TWT-356 PIR.1-0030-24

Astrospheres of Planet-Hosting Cool Stars and Beyond
Herbst, Konstantin; Scherer, Klaus; Engelbrecht, Nicholas Eugene; Strauss, Du Toit; Light, Juandre; Moloto, Katlego

TWT-357 PIR.1-0031-24

Reduction of the Kelvin-Helmholtz instability of the heliopause/astropause due to periodic variations of the solar/stellar wind
Korolkov, Sergey; Izmodenov, Vladislav

Thu, Jul 18, 2024

POIS.1 Quantum Computing

Main Scientific Organizer: Smith, Eric H.
Deputy Organizer: Roy, Aura

Room: CON-108

POIS.1-0001-24 09:00 - 09:20

Forecast next 3-day geomagnetic index using the large-scale features of the coronal magnetic field
Wang, Tingyu

POIS.1-0002-24 09:20 - 09:40

Study on recommendation system for coronal mass ejection similar events
Shi, Yurong

POIS.1-0003-24 09:40 - 10:00

A Solar Imaging Feature Extraction Method Developed to Enhance Deep Learning Space Weather Prediction Models
Tahtouh, Maria; Bernoux, Guillerme; Brunet, Antoine; Standarovski, Denis

POIS.1-0004-24 10:00 - 10:30

Biological Research and Space Health Enabled by Machine Learning to Support Deep Space Missions
Sanders, Lauren; Scott, Ryan; Costes, Sylvain

Coffee Break

Room: CON-108

POIS.1-0005-24 11:00 - 11:30

QUANTUM COMPUTING TOOLS FOR THE ANALYSIS OF ASTROPHYSICAL DATA FROM SPACE MISSIONS
Isfan, Maria-Catalina; Caramete, Laurentiu Ioan; Caramete, Ana; Pislan, Florentina; Nicolin-Zaczek, Alexandru

POIS.1-0006-24 11:30 - 12:00

EXPLORING THE CAPABILITIES OF THE STATE-OF-ART QUANTUM COMPUTERS TO SUPPORT ASTROPHYSICAL RESEARCH APPLICATIONS
Isfan, Maria-Catalina; Caramete, Ana; Caramete, Laurentiu Ioan; Nicolin-Zaczek, Alexandru

POIS.1-0007-24 12:00 - 12:30

Ethical and Assurance Implications of Space-based Quantum Technology
Geiger, Christopher

Thu, Jul 18, 2024

PPP.2 Planetary Protection Mission Implementation and Status

Main Scientific Organizer: Sinibaldi, Silvio
Deputy Organizer: Groen, Frank

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-358 PPP.2-0015-24
ESA Argonaut Missions: Planetary Protection implementation considerations
Cifani, Giorgio; Duvet, Ludovic; Murray, Neil Paul; Sinibaldi, Silvio

PPP.2-0016-24 (WITHDRAWN)
The planetary protection strategy of Mars Sample Return's Capture, Containment & Return System
Cataldo, Giuseppe; Hughes, David; Glavin, Daniel; Feehan, Brendan; Pellerano, Fernando

Thu, Jul 18, 2024

PPP.3 Planetary Protection Research and Development

Main Scientific Organizer: Doran, Peter
Deputy Organizer: Olsson-francis, Karen

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-360 PPP.3-0022-24
Testing the Milliflex Oasis® Filtration System for Planetary Protection Implementation on NASA's Mars Sample Return Sample Retrieval Lander
Chen, Fei; Hizer, Akemi; Stott, Kristina; DiNicola, Michael; Wong, Caressa

TWT-361 PPP.3-0023-24
Effect of aerogel fragments on human cell DNA detection
Kunieda, Taiki; Sasaki, Satoshi

TWT-362 PPP.3-0024-24
Bioburden reduction techniques using wet heat for planetary protection in space exploration missions
Takai, Riku; Fujishima, Kosuke; Suzuki, Shino; Kimura, Shunta

TWT-363 PPP.3-0025-24
Impact of Rapid High Heat and Space Conditions on Proliferation and Inactivation of Self-Perpetuating Biomolecular Assemblies
Seto, Emily; Hirsch, Aspen; Lin, Julia; Bouey, Natasha; Chernoff, Yury

TWT-364 PPP.3-0026-24
Application of UV LEDs and Heaters for In-situ and Flight Microbial Sterilization
Bouey, Natasha; Seto, Emily; Bywaters, Kathryn; Ratliff, Katherine; Wood, Joe

Thu, Jul 18, 2024

PRBEM.2 Radiation Environment across the Solar System: Observations, Measurements, and Models for Current and Future Space Missions

Main Scientific Organizer: Miyoshi, Yoshizumi
Deputy Organizer: Hwang, Junga; Kim, Wousik

Room: CON-110

PRBEM.2-0001-24 09:00 - 09:20
The RADiation Impacts on Climate and Atmospheric Loss Satellite(RADICALS) Mission
Mann, Ian; Cully, Christopher; Fedosejevs, Robert; Milling, David; Enno, Greg; Lipsett, Michael; Zee, Robert E.; Rankin, Robert; Connors, Martin; McWilliams, Kathryn; Ward, William E.; Fiori, Robyn; Olifer, Leonid; Ozeke, Louis; Robert, Marshall; Cullen, David; Barona, David; Howarth, Andrew

PRBEM.2-0002-24 09:20 - 09:40
Long-term variations of the energetic electrons of the outer belt and plasmasphere: Arase 7-year observations
Miyoshi, Yoshizumi; Shinohara, Iku; Takashima, Takeshi; Asamura, Kazushi; Kumar, Sandeep; Mitani, Takefumi; Higashio, Nana; Kazama, Yoichi; Wang, Shiang-Yu; Kasahara, Satoshi; Yokota, Shoichiro; Hori, Tomoaki; Keika, Kunihiro; Jun, Chae-Woo; Tsuchiya, Fuminori; Kumamoto, Atsushi; Kasahara, Yoshiya; Matsuda, Shoya; Sinbori, Atsuki; Matsuoka, Ayako

PRBEM.2-0003-24 09:40 - 10:00
Statistical Analysis of Long-Term Averaged Solar Wind as the Internal Charging Environment
Kim, Wousik; Minow, Joseph; Andersen, Allen; Meloy, Robert; Ratliff, John

PRBEM.2-0004-24 10:00 - 10:20
REENOM - Radiation Environment & Effects NOwcasts for the Moon
Dierckxsens, Mark; De Donder, Erwin; Messios, Neophytos; Echim, Marius; Sandberg, Ingmar; Aminalragia-Giamini, Sigiava; Voitcu, Gabriel; Teodorescu, Eliza; Truscott, Pete; Heynderickx, Daniel

Coffee Break

Room: CON-110

PRBEM.2-0005-24 11:00 - 11:20

Geostationnary relativistic electron observations : overview of ICARE_NG and ICARE_NG^2 radiation monitors aboard Eutelsat missions
Caron, Pablo; Bourdarie, Sebastien; Dahmen, Nour; Ecoffet, Robert; Carron, Jérôme

PRBEM.2-0006-24 11:20 - 11:40

Conceptual Design and Feasibility Study of Moon-Aiming Thai-Chinese Hodoscope for Measurement of Cosmic Ray Electrons, Solar Energetic Particles, and Lunar Albedo Ions
Puprasit, Kunlanan; Chindaratchakul, Sarawit; Chaiwongkhot, Kullapha; Lakronwat, Jidapa; Amratisha, Koth; Pattarakijwanich, Petchara; Ruffolo, David; Torteeka, Peerapong; Burom, Sunruthai; Manuthasna, Shariff; Marsri, Tanawish; Khonsri, Pakorn; Panyalert, Thanayuth; Charoenvicha, Popefa; Yamwong, Wittawat; Prabket, Jirawat

PRBEM.2-0007-24 11:40 - 12:10 (solicited)

A low-cost modeling for radiation belt electrons with nonlinear local scattering by lower-band whistler chorus mode waves
Saito, Shinji; Miyoshi, Yoshizumi; Kurita, Satoshi

PRBEM.2-0008-24 12:10 - 12:30

The First Year of Observations with the Radiation Monitor on the Jupiter Icy Moons Explorer: Solar Energetic Events and Cosmic Rays in the Inner Solar System
Galli, Andre Team: RADEM-PEP-High energy team p. 457

Lunch Break

Room: CON-110

PRBEM.2-0009-24 15:00 - 15:30 (solicited)

Artemis radiation environment
Destefano, Anthony

PRBEM.2-0010-24 15:30 - 15:50

Statistical study of nonlinear EMIC wave-particle interaction on relativistic electrons in the magnetosphere observed by the Arase and Van Allen Probes
Jun, Chae-Woo; Miyoshi, Yoshizumi; Hori, Tomoaki; Kim, Khan-Hyuk; Bortnik, Jacob; Lyons, Larry; Mitani, Takefumi; Takashima, Takeshi; Shinohara, Iku; Higashio, Nana; Matsuoka, Ayako; Kasahara, Yoshiya; Matsuda, Shoya; Kasaba, Yasumasa

PRBEM.2-0011-24 15:50 - 16:10

Performance evaluation using the particle accelerator and Geant4 model for the high-energy particle sensor mounted on the next-generation Japanese meteorological satellite
Park, Inchun; Otsuji, Kenichi; Sakaguchi, Kaori; Namekawa, Taku; Mitani, Takefumi; Kitamura, Hisashi; Meigo, Shin-Ichiro; Yamaguchi, Yuji

PRBEM.2-0012-24 16:10 - 16:30

Long-Term Trend of bias current obtained from Himawari-8/SEDA-e observation
Nagatsuma, Tsutomu; Sakaguchi, Kaori

Thu, Jul 18, 2024

PRBEM.2 Radiation Environment across the Solar System: Observations, Measurements, and Models for Current and Future Space Missions

Main Scientific Organizer: Miyoshi, Yoshizumi
Deputy Organizer: Hwang, Junga; Kim, Wousik

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-365 PRBEM.2-0013-24

Total Ionizing Dose Effects on On-Board Computer Candidate for a Super Low Earth Orbit Optical Satellite
Sohn, Jongdae; Hwang, Junga; Lee, Hojin; Kwak, Jaeyoung; Yoon, Hyosang

TWT-366 PRBEM.2-0014-24

Understanding the generation of EMIC waves in the dayside magnetosphere in response to solar wind dynamic pressure variations : Modeling and Observations
Porunakatu Radhakrishna, Shreedevi; Miyoshi, Yoshizumi; Yu, Yiqun; Jordanova, Vania; Jun, Chae-Woo; Shiokawa, Kazuo

TWT-367 PRBEM.2-0015-24

Initial Results of LEO-DOS Instrument for Low-Earth Space Radiation Measurement on Board the NEXTSat-2
Nam, Uk-Won; Sohn, Jongdae; Park, Won-Kee; Youn, Sukwon; Kwak, Jaeyoung; Moon, Bongkon; Lee, Jaejin; Hwang, Junga; Choi, Young-Jun; Kim, Sunghwan; Kim, Hongjoo; Ye, Sung-Joon; Park, Hongyoung; Jang, Taeseong; Kim, Jungho

TWT-368 PRBEM.2-0016-24

Space and time correlation modeling for trapped radiations specification models
Brunet, Antoine; Sicard, Angelica; Dahmen, Nour; Papadimitriou, Constantinos; Evans, Hugh

TWT-369 PRBEM.2-0017-24

Reconstruction of the anisotropic flux of geomagnetically trapped particles of high energy (E 100 MeV) based on high angular resolution measurements
Malakhov, Vitaly; ***Mikhailov, Vladimir***; Mikhailov, Vladimir; Leonov, Aleksei; Mayorov, Andrey

PRBEM.2-0018-24 (WITHDRAWN)

Solar particle modelling: What influences our specifications - data, methods and implementations
Jiggens, Piers; Aminalragia-Giamini, Sigiava; Heynderickx, Daniel; Sandberg, Ingmar; Sandberg, Ingmar; Evans, Hugh; Truscott, Pete; Raukunen, Osku; Vainio, Rami; Aran, Angels

Thu, Jul 18, 2024

PRBEM.3 Development and Validation of Numerical and Empirical Radiation Belts Models

Main Scientific Organizer: Brunet, Antoine
Deputy Organizer: Olifer, Leonid

Room: CON-110

PRBEM.3-0001-24 17:00 - 17:20
The IRENE-AE9/AP9 Next Generation Radiation Specification Models – Progress Report
O'brien, Paul; Johnston, William; Jiggens, Piers; Miyoshi, Yoshizumi

PRBEM.3-0002-24 17:20 - 17:40
Global Validation of the Data-Assimilative VERB-3D Code
García Peñaranda, Marina; Wang, Dedong; Shprits, Yuri; Drozdov, Alexander; Castillo, Angelica; Haas, Bernhard; Szabo-Roberts, Matyas

PRBEM.3-0003-24 17:40 - 18:00
Manufacturing reliable, gap-free, long term databases of radiation belt dynamics for space climatology applications
Dahmen, Nour; Brunet, Antoine; Sicard, Angelica; Papadimitriou, Constantinos; Sandberg, Ingmar; Evans, Hugh

PRBEM.3-0004-24 18:00 - 18:30 (solicited)
Global Validation of Data-assimilative Electron Ring Current Nowcast for Space Weather Applications
Haas, Bernhard; Shprits, Yuri; Wang, Dedong; Szabo-Roberts, Matyas; Castillo Tibocha, Angelica Maria; García Peñaranda, Marina; Himmelsbach, Julia

Coffee Break

Room: CON-110

PRBEM.3-0005-24 09:00 - 09:20
Testing Calculation Methods of DLL for Externally Driven ULF Waves in the Presence of Cold Plasma Density Structures.
Degeling, Alexander; Sandhu, Jasmine K; Murphy, Kyle; Osmane, Adnane; Rae, Jonathan; Ozeke, Louis

PRBEM.3-0006-24 09:20 - 09:50 (solicited)
Green's function method on dynamics of radiation belt electrons via nonlinear interactions with chorus emissions and EMIC waves
Hsieh, Yikai; Omura, Yoshiharu; Katoh, Yuto

PRBEM.3-0007-24 09:50 - 10:20 (solicited)
Impact of Field Line Curvature Scattering Loss on Trapping of Solar Energetic Protons During the 8–10 March 2012 Geomagnetic Storm
Li, Zhao; Engel, Miles; Hudson, Mary; Kress, Brian; Patel, Maulik; Selesnick, Richard

Thu, Jul 18, 2024

PSB.1 Scientific Ballooning: Recent Developments in Technology and Instrumentation

Main Scientific Organizer: Fuke, Hideyuki
Deputy Organizer: Dubourg, Vincent

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-370 PSB.1-0027-24
Development of a quasi-static launch method using a winch and its application to super-pressure balloons with diamond-shaped nets
Saito, Yoshitaka; ***Akita, Daisuke***; Akita, Daisuke; Iijima, Issei; Ikeda, Chusaku; Ikuta, Ayumu; Fuke, Hideyuki; Furuta, Tatsuya; Mori, Hideyuki; Mizukoshi, Keita; Mizumura, Yoshitaka; Tamura, Makoto; Yamatani, Masahiro; Akita, Daisuke; Nakashino, Kyoichi; Matsuo, Takuma; Igarashi, Yutaka; Hashimoto, Hiroyuki; Matsushima, Kiyoho

Thu, Jul 18, 2024

PSB.2 Low-Cost Balloon Flights as a Learning Tool

Main Scientific Organizer: Chakrabarti, Sandip Kumar

Space Science using low cost balloons

Chair: Akiyama, Hiroaki
Room: CON-105

PSB.2-0001-24 09:00 - 09:30 (solicited)
Results of Low Cost Stratospheric balloon flights of Indian Centre for Space Physics, Kolkata
Chakrabarti, Sandip Kumar

PSB.2-0002-24 09:30 - 10:00 (solicited)
DUSTER XS a lightweight sampling system able to collect aerosols in stratosphere;
Della Corte, Vincenzo; Rotundi, Alessandra; Cozzolino, Fabio; Mennella, Vito; Fiscale, Stefano; Piccirillo, Alice Maria; Muscari Tomajoli, Maria Teresa; Tonietti, Luca; Ferone, Alessio

PSB.2-0003-24 10:00 - 10:15 (solicited)
High Altitude Balloon Analysis of Tropospheric Iodine-Ozone Reactions
Puri, Ekansh; Simmons, Kevin

PSB.2-0004-24 10:15 - 10:30

From High Schools to High Altitude: Advancing High-School-Level Engineering through Stratospheric Balloon Platforms for CubeSat Development and Scientific Exploration
Thitasirivit, Vivatsathorn; Kaweewongsunthorn, Krin; Uthanpathumros, Chayanin; Piyanopharoj, Suvijak; Thanasawangkul, Anonphat; Phumiprathet, Phachara

Coffee Break

Plastic balloons as educational tools
Chair: Chakrabarti, Sandip Kumar
Room: CON-105

PSB.2-0005-24 11:00 - 11:30 (solicited)

Development of Low-Cost Small Zero-Pressure Plastic Balloons at TIFR Balloon Facility, Hyderabad for Atmospheric and Space Research Applications
Ojha, Devendra; Buduru, Suneel Kumar; Godi, Stalin Peter; Neerudu, Nagendra

PSB.2-0006-24 11:30 - 12:00 (solicited)

Stratospheric balloon education in Mongolia and the Global Space Balloon Summit.
Akiyama, Hiroaki; Maeda, Keisuke; Serod, Ganod; Munkh-Ochir, Sergelen; Batbayar, Tuguldur

PSB.2-0007-24 12:00 - 12:30 (solicited)

Global Effort on Low Cost Stratospheric Balloon Missions: Need of an Working Group and Exchange of Experiences – A Panel Discussion
Chakrabarti, Sandip Kumar

Thu, Jul 18, 2024

PSD.1 Satellite Dynamics: New Developments and Challenges for Earth and Solar System Sciences

Main Scientific Organizer: Peter, Heike
Deputy Organizer: Topputo, Francesco

Solar system exploration

Chair: Peter, Heike
Room: EC1-217

PSD.1-0016-24 09:00 - 09:20 (solicited)

Europa Clipper Mission Design
Campagnola, Stefano

PSD.1-0017-24 09:20 - 09:35

Multiscale Astrodynamical Analysis for Improved Cislunar Domain Awareness
Rosengren, Aaron J.; Rawat, Anjali; Kumar, Bhanu; Ross, Shane D.

PSD.1-0018-24 09:35 - 09:50

Enabling Self-Driving Interplanetary Probes: The ERC-funded EXTREMA Project
Morselli, Alessandro; Topputo, Francesco

PSD.1-0019-24 09:50 - 10:05

Satellite Constellation Design Method for Lunar South Pole Communication
Sarli, Bruno; dos Santos, Willer; Peixoto, Isabela; Vasconcelos, Nicole

PSD.1-0020-24 10:05 - 10:20

Measurement by the Italian Spring Accelerometer of Non-Gravitational Perturbations of BepiColombo spacecraft caused by outgassing during a Venus flyby.
Magnafico, Carmelo; de Filippis, Umberto; Santoli, Francesco; Lefevre, Carlo; Lucente, Marco; Lucchesi, David; Peron, Roberto; Fusco, Giacomo; Nitin Harshe, Kalyani

Coffee Break

Spacecraft attitude and orbital dynamics
Chair: Peter, Heike
Room: EC1-217

PSD.1-0021-24 11:00 - 11:15

MAQUIS - Concept for a Mars Quantum Gravity Mission
Wörner, Lisa; Root, Bart C.; Bouyer, Philippe; Braxmaier, Claus; Dirkx, Dominic; De Teixeira da Encarnacao, Joao; Hauber, Ernst; Hussmann, Hauke; Karatekin, Ozgur; Kumanchik, Lee; Migliaccio, Federica; Reguzzoni, Mirko; Ritter, Birgit; Schilling, Manuel; Schubert, Christian; von Klitzing, Wolf; Witasse, Olivier

PSD.1-0022-24 11:15 - 11:30

Learning-Based Self-Tuning Fuzzy Controller for Fluid Wheel Satellite Attitude Control
Tee, Jia Jian; Halder, Ishan Mitra; Chak, Yew-Chung; Varatharajoo, Renuganth

PSD.1-0023-24 (WITHDRAWN) 11:30 - 11:45

Distributed Control Moment Gyroscopes for Control of Large Space Structures: Application to Orbiting Solar Reflectors
Moore, Iain; Sulbhewar, Litesh; Mcinnes, Colin

PSD.1-0024-24 11:45 - 12:00

Methodology and Software Development for Accurate Passive Magnetic Stabilization in CubeSats: A Novel Approach
Berger de Souza, Tirza Ohana; Lomaka, Igor Andreevich; Constantino Gomez, Atzin Fernanda

PSD.1-0025-24 (WITHDRAWN) 12:00 - 12:15

Impact of albedo on the Lyapunov periodic orbits near collinear equilibrium points
Kishor, Ram; Yousuf, Saleem

PSD.1-0026-24 12:15 - 12:30

Poster introduction round
Peter, Heike; Topputo, Francesco

Thu, Jul 18, 2024

PSD.1 Satellite Dynamics: New Developments and Challenges for Earth and Solar System Sciences

Main Scientific Organizer: Peter, Heike
Deputy Organizer: Topputo, Francesco

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-371 PSD.1-0027-24
PRECISE ORBIT DETERMINATION OF SENTINEL SATELLITES WITH GIPSYX AND GPS/GALILEO DATA
Simons, Wim; Visser, Pieter N.A.M.; Naeije, Marc Team: Copernicus POD QWG p. 449

TWT-372 PSD.1-0028-24
Earth Radiation Pressure Modelling for Copernicus Sentinel Satellites
Peter, Heike; Fernández Martín, Carlos; Féménias, Pierre; Nogueira Loddo, Carolina

TWT-373 PSD.1-0029-24
Recovering long-term gravity field changes from SLR and the SLR+GRACE combinations
Sośnica, Krzysztof; Gałdyn, Filip; Zajdel, Radosław

Thu, Jul 18, 2024

PSD.2 Precision Orbit and Attitude Determination of Small Satellites, CubeSats, and Constellation and their Scientific Applications

Main Scientific Organizer: Han, Shin-Chan
Deputy Organizer: Jäggi, Adrian

Chair: Han, Shin-Chan
Room: EC1-217

PSD.2-0001-24 15:00 - 15:15
Precise Orbit Determination of the Spire Satellite Constellation for Geodetic, Geophysical, and Ionospheric Applications
Jäggi, Adrian; Arnold, Daniel; Mao, Xinyuan; Kobel, Cyril; Miller, Alexandra; Kalarus, Maciej; Peter, Heike; Grombein, Thomas; Schreiter, Lucas

PSD.2-0002-24 15:15 - 15:30
Centimeter-level orbit determination for China's space station
Mao, Xinyuan; Wang, Wenbin; Shu, Leizheng; Gao, Yang

PSD.2-0003-24 15:30 - 15:45
GPS/BDS SIGNAL ANALYSIS AND PRECISE ORBIT DETERMINATION OF THE INCLINED GEOSYNCHRONOUS ORBIT SATELLITE LT4A
Huang, Yong; Zhang, Zhenghao; Yang, Peng; Chen, Yanling; Dong, Wenli

PSD.2-0004-24 15:45 - 16:00
Formation of a GNSS network in space based on geodetic satellite missions
Müller, Lukas; Rothacher, Markus; Soja, Benedikt; Jäggi, Adrian; Arnold, Daniel

PSD.2-0005-24 16:00 - 16:15
Hardware simulation of GPS-based relative navigation for the VISION CubeSat mission
Kim, Yeji; Kim, Pureum; Ryu, Han-Gyeol; Park, Sang-Young

PSD.2-0006-24 16:15 - 16:30
Geolocation of Formation-Flying Spacecraft Using Relative Position Vector Measurements
Deng, Li; Yan, Jingye

Coffee Break

Chair: Jäggi, Adrian
Room: EC1-217

PSD.2-0007-24 17:00 - 17:15
Calibration of MEMS Gyroscopes via High-Precision Magnetometer: Application based on Telemetry during the SamSat-ION Nanosatellite Mission
Espinoza Valles, Angelo; Nikolaev, Petr; Romero Alva, Victor; Belokonov, Igor

PSD.2-0008-24 17:15 - 17:30
Simulation of the attitude pointing performance of CubeSats for optical communications
Garbagnati, Elisa; Rüddenklau, René

PSD.2-0009-24 17:30 - 17:45
Attitude Maneuvering Profile Software (AMPS): verified attitude and antenna tracking profile generator for LEO satellite
Moon, Shinhye; Kim, Tae-Seog; Jang, Jongjin

PSD.2-0010-24 17:45 - 18:00
In-orbit Target-based Autonomy for Enhanced Control and Stability of the Small Satellite Constellations in CisLunar Space
Rashed, Mohammed Irfan; Bang, Hyochoong

PSD.2-0011-24 18:00 - 18:15
Trajectory Optimization of a Dual-Arm Space Manipulator
Alshammari, Saad; Wu, Xiaofeng

PSD.2-0012-24 (WITHDRAWN) 18:15 - 18:30
Constellation Satellite Maneuver Prediction through Deep Learning Methods
Liu, Han; Yu, Shengxian; Wang, Xin

Thu, Jul 18, 2024

PSD.2 Precision Orbit and Attitude Determination of Small Satellites, CubeSats, and Constellation and their Scientific Applications

Main Scientific Organizer: Han, Shin-Chan
Deputy Organizer: Jäggi, Adrian

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-374 PSD.2-0013-24
Efficacy of the Monte Carlo Method within the Aerospace Industry
Kukec, Sofia; Simmons, Kevin

TWT-375 PSD.2-0014-24
Atmospheric Turbulence and Ground-Space Laser Propagation: The Concept of CLUB CubeSat
Song, Seok-Min; Song, Hosub; Kim, Chae-Ryeong; Kang, Young-In; Ju, Yang-Ha; Choi, Mansoo; Lim, Hyung-Chul; Yi, Yu

Thu, Jul 18, 2024

PSSH.1 The Challenges of Space Activities from the Perspective of Human and Social Sciences

Main Scientific Organizer: Sourbès-Verger, Isabelle
Deputy Organizer: Hedman, Niklas; Worms, Jean-Claude

Chair: Sourbès-Verger, Isabelle
Room: CON-109

PSSH.1-0001-24 09:00 - 09:15
Poster Presentations
Worms, Jean-Claude

PSSH.1-0002-24 09:15 - 09:30
The New World Space Order
Le Gall, Jean-Yves

PSSH.1-0003-24 09:30 - 09:45
Space Diplomacy: conceptual framework, highlights, and outlook
Messina, Piero

PSSH.1-0004-24 09:45 - 10:05 (solicited)
Trinkets, Trash and Tardigrades: Are There Legal and Policy Limitations on Payloads to the Moon?
Hedman, Niklas; Tennen, Leslie

PSSH.1-0005-24 10:05 - 10:25 (solicited)
Research avenues to better grasp the diversity of participants in space exploration
Sourbès-Verger, Isabelle

Coffee Break

Chair: Hedman, Niklas
Room: CON-109

PSSH.1-0006-24 11:00 - 11:15
Security and Economy in the Late Soviet Space Commercialization
Dubrovina, Olga

PSSH.1-0007-24 (WITHDRAWN) 11:15 - 11:30
Economic considerations for humanity's long-term investments in space-related activities
Lugauer, Steven; Curtis, Chadwick

PSSH.1-0008-24 11:30 - 11:45
Men in Black or Guardians of the Galaxy?
Worms, Jean-Claude

PSSH.1-0009-24 11:45 - 12:15
PSSH discussion (1)
Worms, Jean-Claude; Sourbès-Verger, Isabelle; Hedman, Niklas

PSSH.1-0010-24 12:15 - 12:30
PSSH discussion (2)
Worms, Jean-Claude; Sourbès-Verger, Isabelle; Hedman, Niklas

Thu, Jul 18, 2024

PSSH.1 The Challenges of Space Activities from the Perspective of Human and Social Sciences

Main Scientific Organizer: Sourbès-Verger, Isabelle
Deputy Organizer: Hedman, Niklas; Worms, Jean-Claude

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-376 PSSH.1-0011-24
NEW SPACE SECURITY BETWEEN HARD AND SOFT LAW
Gaillard-Sborowsky, Florence

TWT-377 PSSH.1-0012-24
Astrobioethics: an Inquiry into space sciences and the perpetuity of Life
Perkins, Deborah Kala

TWT-378 PSSH.1-0013-24
Legal Frameworks and Challenges to commercial Space Flight: A UAE Space Law Perspective
Abbas, Sheer

Thu, Jul 18, 2024

PSW.6 Improving Predictive Capabilities of Radiation Environment in Support of Human Exploration and Robotic Missions

Main Scientific Organizer: Whitman, Kathryn
Deputy Organizer: Jun, Insoo

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-381 PSW.6-0007-24

New REleASE Products: Application of the Relativistic Electron Alert System (REleASE) to instruments on board of STEREO-A
Drôge, Henrik; ***Jensen, Stefan***; Jensen, Stefan; Heber, Bernd; Kollhoff, Alexander; Kühl, Patrick; Malandraki, Olga; Posner, Arik

TWT-382 PSW.6-0008-24

Utilizing Measurements from the Radiation Assessment Detector (RAD) on the Surface of Mars to Improve our Understanding of the Martian Radiation Environment
Ehresmann, Bent; Hassler, Donald M.; Zeitlin, Cary; Wimmer-Schweingruber, Robert; Khaksarighiri, Salman; Guo, Jingnan; Löffler, Sven; Matthiä, Daniel; Berger, Thomas; Reitz, Guenther

PSW.6-0009-24 (WITHDRAWN)

Aspects of Modelling Solar Energetic Particle Event – improving Predictive Capabilities of the Radiation Environment
Li, Gang

Thu, Jul 18, 2024

PSW.7 International Space Weather Cooperation

Main Scientific Organizer: Yoon, Kichang
Deputy Organizer: Ishii, Mamoru

Room: EC1-315

PSW.7-0025-24 11:00 - 11:15

Towards improved international coordination in space weather: What are the next steps following the work of the United Nations Expert Group on Space Weather?
Mann, Ian

PSW.7-0026-24 (WITHDRAWN) 11:15 - 11:30

International Space Weather Cooperation Activities of the Australian Bureau of Meteorology
Marshall, Richard

PSW.7-0027-24 11:30 - 11:45

A Revision of the Space Weather Scales
Murtagh, William; Clinton, Wallace

PSW.7-0028-24 11:45 - 12:00

Operational Space Weather Activities in The Coordination Group for Meteorological Satellites
Nagatsuma, Tsutomu; Monham, Andrew; Talaat, Elsayed; Luntama, Juha-Pekka

PSW.7-0029-24 12:00 - 12:15

International cooperation on ground-based and multi-vantage point observations of the Sun
Pevtsov, Alexei; Sabrina Bechet, Sabrina

PSW.7-0030-24 12:15 - 12:30

Italy-Canada-Finland cooperation for GNSS Space Weather infrastructure in Arctic : PAGINA project
Romano, Vincenzo; Cesaroni, Claudio; Jayachandran, Thayyil; Kauristie, Kirsti; Mainella, Sara; Marcocci, Carlo; Pica, Emanuele; Spogli, Luca; Viola, Massimo

Coffee Break

Room: EC1-315

PSW.7-0031-24 15:00 - 15:15

Advancing Space Weather Research: Collaborative Research in GNSS and Space Weather through ASEAN IVO Platform and Beyond
Supnithi, Pornchai; Myint, Lin Min Min; Jamjureegulgarn, Punyawi; Budtho, Jirapoom; Nishioka, Michi; Perwitasari, Septi

PSW.7-0032-24 15:15 - 15:30

COMMERCIAL RADIATION INTERNATIONAL COLLABORATIONS
Tobiska, W Kent

PSW.7-0033-24 15:30 - 15:45 (solicited)

International Efforts in Enabling Space Weather Risk Mitigation over Africa
Tshisaphungo, Mpho; Katamzi-Joseph, Zama; Matamba, Tshimangadzo Merline; Nndanganeni, Rendani Rejoyce

Thu, Jul 18, 2024

PSW.8 The Geomagnetic Environment Leading to GIC Impacts on Power-infrastructure

Main Scientific Organizer: Opgenoorth, Hermann
Deputy Organizer: Gannon, Jennifer

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-384 PSW.8-0007-24

Diurnal and Seasonal Variability of Geomagnetically Induced Currents (GICs) in Power Transmission Systems: A Case Study in Japan
Idei, Shun; Nakamura, Satoko; Miyoshi, Yoshizumi; Ebihara, Yusuke; Watari, Shinichi

Thu, Jul 18, 2024

PSW.10 Radio Observations for Space Weather

Main Scientific Organizer: Bisi, Mario M.

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-379 PSW.10-0012-24

The Hunt for Perpendicular Magnetic Field Measurements in Plasma
Jensen, Elizabeth; ***Bisi, Mario M.***; Bisi, Mario M.; Rahmani, Yaser; Simpson, Jamesina

TWT-380 PSW.10-0013-24

Radio Investigations for Space Environment Research (RISER): Overview and Initial Progress
Bisi, Mario M.; Forte, Biagio; Milan, Steve; Jackson, David; Fallows, Richard; Jackson, Bernard; Odstrcil, Dusan; Barnes, David; Chang, Oyuki; Gonzi, Siegfried

Thu, Jul 18, 2024

TGCSS.1 Small Spacecraft - Big Science

Main Scientific Organizer: Baker, Daniel N.
Deputy Organizer: Chandran, Amal

Room: CON-106

TGCSS.1-0001-24 09:00 - 09:30 (solicited)

COSPAR Constellation of Small Spacecraft
Baker, Daniel N.; Chandran, Amal

TGCSS.1-0002-24 09:30 - 09:45

In-orbit orbit determination using GNSS for CORBES satellites Foresail-2/3
Anger, Marius; Hiltunen, Markus

TGCSS.1-0003-24 09:45 - 10:00

The CUAVA-2 CubeSat: A 6U CubeSat platform for remote sensing, space weather and technology demonstrators
Bai, Xueliang Team: CUAVA-2 p. 450

TGCSS.1-0004-24 10:00 - 10:30

1. TGCSS Discussion
Chandran, Amal; Chang, Loren; Baker, Daniel N.; Meftah, Mustapha

Coffee Break

Room: CON-106

TGCSS.1-0005-24 11:00 - 11:30 (solicited)

The COSPAR-1 and COSPAR-2 Missions: Advancing Global Space Weather Measurements
Chandran, Amal; Baker, Daniel N.; Chang, Loren; Meftah, Mustapha

TGCSS.1-0006-24 11:30 - 11:45

Baffle Design and Stray Light Analysis for Onboard CubeSat EO/IR Off-Axis Reflective System
Kim, Dohoon; Kim, Changgon; Yu, Heejung; Kim, Nayeon; Jung, Daehan; Han, Jimin; Pak, Soojong; Park, Sung-Joon; Moon, Bongkon; Lee, Daehee; Lee, Jaejin; Kim, Geon Hee; Shin, Goo-Hwan; Hwang, Inyoung; Na, Kyung-Su

TGCSS.1-0007-24 11:45 - 12:00

Energy Management and Design of Electrical Power System For a Space Plasma Nano-Satellite
Osman, Mohamed; Mahmoud, Ayman

TGCSS.1-0008-24 12:00 - 12:30

2. TGCSS Discussion
Chang, Loren; Chandran, Amal; Baker, Daniel N.; Meftah, Mustapha

Lunch Break

Room: CON-106

TGCSS.1-0009-24 15:00 - 15:30 (solicited)

The Deep Space Radiation Probe: Development of a First Lunar Science Payload for Space Environment Studies and Capacity Building
Chang, Loren; Lin, Wei-Yi; Chou, Yi-Hsuan; Lin, Jen-Siang; Lung, Chieh; Chen, I; Wang, Yu-Shun; Chiu, Yi-Chung; Chao, Chi-Kuang; Liu, Jann-Yenq; Hsiao, Tung-Yuan

TGCSS.1-0010-24 15:30 - 15:45

From Earth to Mars: A New Possible Task Group on Establishing an International Constellation of SmallSats for the Red Planet?
Montabone, Luca; Chandran, Amal; Baker, Daniel N.

TGCSS.1-0011-24 15:45 - 16:00

Optomechanical Semi-Kinematic Mount Design and Finite Element Analysis for Onboard EO/IR Off-Axis Reflective System
Yu, Heejung; Kim, Changgon; Kim, Dohoon; Han, Jimin; Jung, Daehan; Kim, Nayeon; Park, Sung-Joon; Moon, Bongkon; Lee, Daehee; Lee, Jaejin; Han, Jeong-Yeol; Cha, Sang-Mok; Kim, Geon Hee; Kang, Jong Gyun; Shin, Goo-Hwan; Hwang, Inyoung; Na, Kyung-Su; Pak, Soojong

TGCSS.1-0012-24 16:00 - 16:30

3. TGCSS Discussion
Meftah, Mustapha; Baker, Daniel N.; Chandran, Amal; Chang, Loren

Coffee Break

Room: CON-106

TGCSS.1-0013-24 17:00 - 17:30 (solicited)

INSPIRE missions: From Teaching Tools to Sun and Earth Observation Satellites
Meftah, Mustapha; Baker, Dan; Chang, Loren; Chandran, Amal

TGCSS.1-0014-24 17:30 - 17:45
Recent progress on the NanoMagSat project, a nanosatellite LEO constellation for monitoring Earth's magnetic field and ionospheric environment
Hulot, Gauthier; Léger, Jean-Michel; Deconinck, Florian; Clausen, Lasse B.N.; Jørgensen, John; Jager, Thomas; Wilkinson, Josh; Vallmitjana Tostado, Maria; Nieto, Pepe; Coisson, Pierdavide; Van Den IJssel, Jose

TGCSS.1-0015-24 17:45 - 18:00
The COSPAR Small Satellite Constellation Project Office
Worms, Jean-Claude

TGCSS.1-0016-24 18:00 - 18:30
4. TGCSS Discussion
Baker, Daniel N.; Chandran, Amal; Chang, Loren

Thu, Jul 18, 2024

TGCSS.1 Small Spacecraft - Big Science

Main Scientific Organizer: Baker, Daniel N.
Deputy Organizer: Chandran, Amal

Poster Program

Author in Attendance: Thursday, 17:00 - 18:30, Poster area: EC1-Hall 1

TWT = Tuesday, Wednesday, Thursday

TWT-385 TGCSS.1-0017-24
High grade magnetometer onboard Foresail-2/3 satellites for CORBES - First test results
Anger, Marius; Fischer, David; Praks, Jaan

TWT-386 TGCSS.1-0018-24
An Exploration of Wood-Based Cube Satellite Chassis
Timbal, Sebastian; Simmons, Kevin

TWT-387 TGCSS.1-0019-24
PRELIMINARY ANALYSIS OF A CO-ANNULAR SLIT EMITTER FOR AN ELECTROSPRAY PROPULSION SYSTEM
Sunho, Choe; Kwon, Chanearl

TWT-388 TGCSS.1-0020-24
ELECTROSPRAY EXPERIMENT OF WATER AND GLYCERIN USING CAPILLARY AND ANNULAR SLIT TYPE EMITTER
Kwon, Chanearl

Thu, Jul 18, 2024

TGIGSP.1 ISTPNext: International Coordination in Heliophysics

Main Scientific Organizer: Kepko, Larry
Deputy Organizer: Nakamura, Rumi

Room: EC1-317

TGIGSP.1-0001-24 17:00 - 17:15
Facilitating Worldwide Collaborations in the Geospace Dynamic Constellation (GDC) Era
Gallardo-Lacourt, Bea; Rowland, Douglas; Kepko, Larry; Garcia-Sage, Katherine

Thu, Jul 18, 2024

IR.1 Engaging Global Space Industry Stakeholders

Main Scientific Organizer: Snitch, Mary
Deputy Organizer: Gold, Michael; Reed, John; Roy, Aura

Implications of Launch Service Market Evolution for Future Science Missions

Chair: Reed, John
Room: CON-203

IR.1-0003-24 09:00 - 10:30 (solicited)
Implications of Launch Service Market Evolution for Future Science Missions
Reed, John

Coffee Break

Watching for Apophis: Near-Earth Asteroid Makes a Once in 1000 Years Flyby

Chair: Nordt, Alison
Room: CON-203

IR.1-0004-24 11:00 - 12:30 (solicited)
Apophis T-5: Ongoing Plans, Mission Concerns under Study and International Cooperation
Gold, Michael

Lunch Break

JWST: Science Highlights of the First Two Years

Chair: Nordt, Alison
Room: CON-203

IR.1-0005-24 15:00 - 16:30 (solicited)
JWST: Science Highlights of the First Two Years
Snitch, Mary; Roy, Aura

Coffee Break

The Habitable Worlds Observatory: Science-Driven Plans for Technology Development

Chair: Squyres, Steven
Room: CON-203

IR.1-0006-24 17:00 - 18:30 (solicited)

The Habitable Worlds Observatory: Science-Driven Plans for Technology Development
Snitch, Mary; Roy, Aura

Fri, Jul 19, 2024

A0.2 Land-Ocean-Atmosphere interactions

Main Scientific Organizer: Fournier, Severine
Deputy Organizer: Benveniste, Jérôme

Atmosphere Processes and Air-Sea interactions

Chair: Benveniste, Jérôme
Room: EC1-317

A0.2-0001-24 09:00 - 09:20

Planetary boundary layer diagnostics in atmospheric rivers based on simulations and observations for airborne GNSS radio occultation technique
Hordyniec, Pawel; Haase, Jennifer S.; Cao, Bing

A0.2-0002-24 09:20 - 09:40

Relative Roles of Convection and Advection in the Sustenance of the Asian Summer Monsoon Anticyclone
Padinhare Peediyekkal, Musaid; Mehta, Sanjay Kumar; Tegtmeier, Susann; Fujiwara, Masatomo; Das, Siddarth Shankar; Das, Someshwar

A0.2-0003-24 09:40 - 10:10 (solicited)

Air-sea exchange from space: Simultaneous Winds and Surface Currents via the proposed ODYSEA Doppler Scatterometer
Gille, Sarah Team: ODYSEA Science Team p. 455

A0.2-0004-24 (WITHDRAWN) 10:10 - 10:30

Development High Resolution Couple Atmosphere-Wave-Ocean Modelling in Tropical and Biggest Archipelago Country
Alfahmi, Furqon

Coffee Break

Ocean Processes and Altimetry

Chair: Fournier, Severine
Room: EC1-317

A0.2-0005-24 11:00 - 11:20

Analysis of the relationship between Marine Heat Waves and the level of chlorophyll concentration in the Equatorial Atlantic Ocean by using AQUA/MODIS Satellite
Vasques, Victor; Ferreira, Antonio Geraldo

A0.2-0006-24 11:20 - 11:40

Impact of global warming on atmospheric water vapor in the context of satellite altimetry
Vieira, Telmo; Fernandes, Joana; Aguiar, Pedro; Lázaro, Clara

A0.2-0007-24 11:40 - 12:00

Exploring the dynamics of the Northeast Tropical Atlantic Ocean and its connection to climate indices
Cardoso, Isabel; Lázaro, Clara; Iglesias, Isabel; Lorenzo, M. Nieves; Amorim, Fabíola; Fernandes, Joana

A0.2-0008-24 12:00 - 12:15

Effects of Heat and Momentum on the Sea Level in the Yellow and East Seas from 1993 to 2021
Han, Myeonghee; Chang, Yeon S.; Yoo, Jeseon; Lim, Hak-Soo

A0.2-0009-24 12:15 - 12:30

Discussion
Fournier, Severine

Lunch Break

Coastal and Inland Altimetry

Chair: Fournier, Severine
Room: EC1-317

A0.2-0010-24 15:00 - 15:20

Extreme Sea Level Events and Associated Hazards: Main Scientific Challenges and recent advances in Earth Observations
Almeida, Luis Pedro

A0.2-0011-24 15:20 - 15:40

Monitoring Relative Sea-Level Changes near Phuket, South Thailand, Using (Space) Geodetic Techniques
Simons, Wim; Naeije, Marc; Williams, Simon; Niemnil, Sommart; Aiadsane, Ploypilin

A0.2-0012-24 15:40 - 16:00

Satellite subsidence and sea-level data assimilation for mean high-water line assessment in the Bangkok area : An Update
Niemnil, Sommart Team: TU Delft p. 460

A0.2-0013-24 16:00 - 16:15

Altimetric nanosatellite constellation for daily monitoring of continental water surfaces
Benveniste, Jérôme Team: SMASH Team p. 458

A0.2-0014-24 16:15 - 16:30

Discussion 2
Fournier, Severine

Coffee Break

Land Processes and Land-Atmosphere Interactions

Chair: Benveniste, Jérôme
Room: EC1-317

A0.2-0015-24 17:00 - 17:20

Seeking the hidden: Precipitation, Temperature, and Vegetation have a lead-lag relationship with Atmospheric CO2 spatiotemporal distribution over Asian regions
Buddola, Jagadish; Behera, Mukunda Dev; Patra, Prabir K.

A0.2-0016-24 (WITHDRAWN) 17:20 - 17:40

Aerosol pollution over Indo-Gangetic Plain and its impact on the Himalayas: A long-term study
Raul, Soumen; Dutta, Monami; Mukherjee, Sauryadeep; Chatterjee, Abhijit

A0.2-0017-24 17:40 - 18:00

Mesosphere-Ionosphere Monitoring and Its Correlation to Climate Forecast and Seismic Activity using satellite.
Md Yusoff, Siti Harwani

A0.2-0018-24 18:00 - 18:15

Revisit of Chandler Wobble: Its Existence and Excitation Mechanism
Na, Sung-Ho; Yi, Yu

A0.2-0019-24 18:15 - 18:30

Poster summaries
Fournier, Severine

Fri, Jul 19, 2024

A0.4 Earth observations for Disaster Mitigation

Main Scientific Organizer: Vannan, Suresh
Deputy Organizer: Kasai, Yasuko

Room: EC1-316

A0.4-0001-24 09:00 - 09:15

Analysis of Preliminary Breakdown Stage in Lightning Flashes Over Europe Combining Data from the Optical Space-Based LIS Sensor and the Ground-Based Broadband Magnetic Loops SLAVIA
Kolinska, Andrea; Kolmasova, Ivana; Santolik, Ondrej; Podolnik, Ales

A0.4-0002-24 09:15 - 09:30

Cardboard based fixed-wing UAV for monitoring earthquake damage situation
Kasahara, Mikihiro; Hasegawa, Katsuya

A0.4-0003-24 (WITHDRAWN) 09:30 - 09:45

A New Data-Driven Inundation Forecasting Technique: Forecasting Inundation Extents using Rotated empirical orthogonal function analysis (FIER) and Its Economic Impact on Lower Mekong
Lee, Hyongki; Chang, Chi-Hung; Laverde, Miguel; Towashiraporn, Peeranan

A0.4-0004-24 (WITHDRAWN) 09:45 - 10:00

Early Warning System For Floods (EWSF) : Building a process repository to leverage open-source Earth Observation data for flood warning across different stakeholders in Pakistan
Nayyer, Mahhad

A0.4-0005-24 10:00 - 10:15

Advancing Disaster Mitigation in Greece: Innovative Earth Observation Technologies through the National SmallSat Programme
Bliziotis, Dimitris; Daglis, Ioannis A.; Karantzalos, Konstantinos; Sergis, Nick; Synolakis, Costas

A0.4-0006-24 (WITHDRAWN) 10:15 - 10:30

Planetary boundary layer observed from infrared ultraspectral remote sensor NAST-I
Zhou, Daniel; Jang, Hyun-Sung; Liu, Xu; Larar, Allen

Coffee Break

Room: EC1-316

A0.4-0007-24 11:00 - 11:15

Nowcasting of Severe Weather Events using Post-Processing of SEVIRI MSG Products with Machine Learning Algorithms
Taghavi, Farahnaz; Ahmad Ghondaghsaz, Delaram; Bagheri Moslehabadi, Amir

A0.4-0008-24 11:15 - 11:30

Forest Fire Susceptibility Mapping Using Climatic, Topographical, Biophysical, and Anthropogenic Factors in Google Earth Engine for forest in North-Eastern Himalayas
Gupta, Priyanka; Shukla, Dericks Praise

A0.4-0009-24 11:30 - 11:45

Machine learning-based characterization of landslides in complex mountainous terrain of northwestern Himalayas
Singh, Ankit; Dhiman, Nitesh; Shukla, Dericks Praise

A0.4-0010-24 11:45 - 12:00

Seasonal Prediction of Dust Storm Frequency Using Deep Learning to Identify the Influence of Climate and Environmental Factors
K. Alshammari, Reem; Alrwais, Omer; Aksoy, Mehmet Sabih

A0.4-0011-24 12:00 - 12:15

Forecasting Tropical Cyclone position and wind speed with a Spatio-Temporal Convolutional Network using multi-parameter satellite meteorological data.
Budnikov, Pavel; Velasco Herrera, Victor Manuel

A0.4-0012-24 12:15 - 12:30

Estimating the rate of land subsidence using PS-inSAR in North western Himalaya
Dhiman, Nitesh; Singh, Ankit; Mahanta, Kirti Kumar; Shukla, Dericks Praise

Lunch Break

Room: EC1-316

A0.4-0013-24 15:00 - 15:15

Monitoring the spatial and temporal patterns of rock glacier melt induced subsidence using Multi-Temporal Interferometric Synthetic Aperture Radar techniques
Mahanta, Kirti Kumar; Pradhan, Ipshita Priyadarsini; Gupta, Sharad Kumar; Shukla, Dericks Praise; Gupta, Nikita

A0.4-0014-24 15:15 - 15:30

Assessment of post-fire vegetation recovery in Great Smoky Mountain, USA using Sentinel-2 and NEON Lidar data
Sim, Sunhui

A0.4-0015-24 15:30 - 15:45

Forecasting Flash Flood Risks with Deep Learning using InSAR, Rainfall, and Hydrological Data
K. Alshammari, Reem; Almoadi, Abdulrhman; Aldaajani, Thamer

A0.4-0016-24 15:45 - 16:00

Helicity evolution during the life cycle of tropical cyclones formed over the north Indian ocean
Munsi, Arpita; Kesarkar, Amit; Bhate, Jyoti; Kutty, Govindan; Vpm, Rajasree

A0.4-0017-24 16:00 - 16:15

Optimal Locations for Earth Observations for Forecast Error Reduction Estimated Using Ensemble Sensitivity Analysis
Mohan Kumar, Govindan Kutty; George, Babitha

Fri, Jul 19, 2024

A0.6 The Connections between Earth's Lower and Upper Atmosphere

Main Scientific Organizer: Kahn, Ralph
Deputy Organizer: Yau, Andrew W.

Room: EC1-316

A0.6-0001-24 17:00 - 17:15

SPECTRAL ANALYSES OF FERMI-GBM TERRESTRIAL GAMMA-RAY FLASHES AND ELECTRON BEAMS
Mailyan, Bagrat; Lesage, Stephen; Sarria, David; Briggs, Michael

A0.6-0002-24 17:15 - 17:30 (solicited)

Quantifying the sources of stratospheric gravity waves in the winter southern hemisphere
Wright, Corwin; Noble, Phoebe

A0.6-0003-24 17:30 - 17:45 (solicited)

Quiet-Time thermosphere and lower atmosphere
Yue, Jia

A0.6-0004-24 17:45 - 18:00

Observational evidence for the role of diurnal tide in driving the winds in the polar UMLT region
Dutta, Reetambhara; Sundararajan, Sridharan

A0.6-0005-24 18:00 - 18:15 (solicited)

The Role of the Polar Vortex in Atmosphere-Ionosphere Coupling
Harvey, V Lynn; Goncharenko, Larisa; Greer, Katelynn; Vadas, Sharon; Becker, Erich

A0.6-0006-24 (WITHDRAWN) 18:15 - 18:30

Coordinated astronaut observations of thunderstorms and transient luminous events from the International Space Station
Yair, Yoav; Chanrion, Olivier

Fri, Jul 19, 2024

B0.3 Technology for Planetary Exploration

Main Scientific Organizer: Longobardo, Andrea
Deputy Organizer: Smith, Heather

General technological applications

Chair: Longobardo, Andrea
Room: EC1-215

B0.3-0001-24 09:00 - 09:20 (solicited)

NASA Planetary Science Technology Development Plan
Mayyasi, Majd Team: PESTO Team p. 456

B0.3-0002-24 09:20 - 09:35

Space Resources Exploration and Utilization – A Geodetic Perspective
Zhang, Kefei; Wu, Suqin; Li, Longjiang; Zhao, Dongsheng; Li, Huaizhan; Sun, Peng

B0.3-0003-24 09:35 - 09:50

Automation and AI Technology Development for Planetary Drilling
Glass, Brian; Stucky, Thomas; Stevenson, Terry; Boelter, Sarah; Bergman, Dean; Stoker, Carol

B0.3-0004-24 09:50 - 10:05

ENHANCING PLANETARY EXPLORATION USING ORBITING SOLAR REFLECTORS
Celik, Onur; Mcinnes, Colin

B0.3-0005-24 10:05 - 10:20

Enabling Unthinkable Spaceborne Architectures through the use of Deployable Membrane-Based Optics
Leckey, John

Coffee Break

Moon and Venus exploration

Chair: Smith, Heather
Room: EC1-215

B0.3-0006-24 11:00 - 11:15

Intuitive Machines: Enabling commercial international lunar scientific exploration.
Bussey, Ben; Martin, Trent

B0.3-0007-24 (WITHDRAWN) 11:15 - 11:30

Small Spacecraft missions for Planetary Exploration
Jorgensen, Therese

B0.3-0008-24 11:30 - 11:45

Is the sail control mechanism of IKAROS applicable to Payankeu?
Strub, Owen

B0.3-0009-24 (WITHDRAWN) 11:45 - 12:00

Optimal low-energy low-thrust Earth-Moon transfers
Yoon, Sung Wook; Petukhov, Viacheslav; Ivanyukhin, Alexey; Zhou, Rui

B0.3-0010-24 12:00 - 12:15

Lunar Surface Environment Simulation Facility - DTVC
Chung, Taeil; Shin, Hyu-Soung; Lee, Jangguen; Park, Seungsoo

B0.3-0011-24 12:15 - 12:30

Maturing Capabilities for Long-Duration Venus Landers
Kremic, Tibor

Lunch Break

Science on the Moon

Chair: Celik, Onur
Room: EC1-215

B0.3-0012-24 15:00 - 15:15

Field Experiment with the Honeybee Robotics TRIDENT Drill in Lunar Analog Volcanic Deposits Near Bishop, California: Insights for Planetary Exploration
Stoker, Carol; Glass, Brian; Smith, Heather; Walter, Callum

B0.3-0013-24 15:15 - 15:30

Unlocking lunar resources for ISRU using LIBS
Perkins, Joe; Ganly, Brianna; Munday, Lance; Webster, Jack; Kirkpatrick, Molly; Shaw, Matthew

B0.3-0014-24 15:30 - 15:45

A Rock Grinding and Transfer Device (RGTD) for Lunar In-Situ Mineral Resources Investigation Mission
Tang, Junyue; Yu, Zeyao; Chen, Xiren; Feng, Chenchen; Jiang, Shengyuan

B0.3-0015-24 15:45 - 16:00

MOVIDA: an instrument for lunar dust environment characterization
Dirri, Fabrizio; Gisellu, Chiara; Palomba, Ernesto; Longobardo, Andrea; Nardi, Enrico; Massa, Giuseppe; Zampetti, Emiliano; Saggin, Bortolino; Scaccabarozzi, Diego

B0.3-0016-24 16:00 - 16:15

Introduction to manufacturing process of microwave sintering based KLS-1 lunar regolith simulant block
Jin, Hyunwoo; Kim, Young-Jae; Lee, Jangguen; Zhuang, Li; Yeom, Sun; Shin, Hyu-Soung

B0.3-0017-24 16:15 - 16:30

Dust, a risk for lunar and asteroid surface operations: how sticky is it really?
Biele, Jens; Persson, Bo; Krause, Christian; Ulamec, Stephan

Coffee Break

From asteroids to deep space

Chair: Leckey, John
Room: EC1-215

B0.3-0018-24 17:00 - 17:15

Conversion surfaces for space applications and their characterization with low-energy beams
Sokol, Justyna M.

B0.3-0019-24 17:15 - 17:30

Design Feasibility Study on SmallSat based Asteroid mission focusing on vision
Ju, Gwanghyeok; Jeon, Soyul; Kim, Yeji; Eun, Youngho; Park, Sang-Young

B0.3-0020-24 17:30 - 17:45

GLGVI Construction for Analyzing Orbit-Attitude Coupled Motions near Small Bodies
Lee, Jinah; Park, Chandeok

B0.3-0021-24 17:45 - 18:00

Outer solar system exploration with a micro-satellite by OPENS-0 mission
Morishita, Takato; Usuki, Tomoaki; Ozaki, Naoya; Kubo, Yuki; Akizuki, Yuki; Matsushita, Masanori; Torii, Wataru; Hyodo, Ryuki; Funase, Ryu; Yano, Hajime Team: OPENS concept study team p. 456

B0.3-0022-24 18:00 - 18:15

Development of Small-sized Stirling Radioisotope Generator for Deep-space Exploration
Jeong, Yongrok; Kim, Jong-Bum; Kim, Sunjin; Kim, Jin-Joo; Kim, Jin; Kang, Gu-Jin; Kwon, Sukcheol; Hong, Jintae

B0.3-0023-24 18:15 - 18:30

Deep Space Mission Design and Analysis using Small-Small(Small Dedicated Launch Vehicle and Small Satellite) Combinations
Choi, Su-Jin

Fri, Jul 19, 2024

B4.2 Venus Science and Exploration

Main Scientific Organizer: Lee, Yeon Joo
Deputy Organizer: Wilson, Colin

Room: EC1-214

B4.2-0023-24 11:00 - 11:20 (solicited)

Achievements of Akatsuki and expectations for next-generation Venus missions
Imamura, Takeshi; Satoh, Takehiko; Yamazaki, Atsushi

B4.2-0024-24 11:20 - 11:35

The DAVINCI mission to Venus : in situ insights on Venus atmospheric composition
Lebonnois, Sebastien; Garvin, Jim; Getty, Stephanie; Arney, Giada; Johnson, Natasha; Kohler, Erika Team: DAVINCI team p. 450

B4.2-0025-24 11:35 - 11:50

VERITAS (VENUS EMISSIVITY, RADIO SCIENCE, INSAR, TOPOGRAPHY AND SPECTROSCOPY): A SELECTED DISCOVERY MISSION
Smrekar, Suzanne; Hensley, Scott; Iess, Luciano; Dyar, Darby; Whitten, Jennifer; Nunes, Daniel; Helbert, Jorn; Mazarico, Erwan; Campbell, Bruce; Mastrogiuseppe, Marco

B4.2-0026-24 11:50 - 12:05

Science objectives and status of the EnVision Mission to Venus
Straume-Lindner, Anne Grete; Marcq, Emmanuel; Schulte, Mitchell; Pacros, Anne; Voirin, Thomas; Bruzzone, Lorenzo; Byrne, Paul; Carter, Lynn; Dumoulin, Caroline; Gilli, Gabriella; Helbert, Jorn; Hensley, Scott; Jessup, Kandis Lea; Kiefer, Walter; Mason, Philippa; Moreira, Alberto; Vandaele, Ann C.; Widemann, Thomas

B4.2-0027-24 12:05 - 12:20

Science objectives of the VenSpec-U ultraviolet spectral imager on board EnVision
Marcq, Emmanuel; Lustrement, Benjamin; Bertran, Sandrine; Lasue, Jeremie; Vinatier, Sandrine; Lara, Luisa; Conan, Lucile; Lefevre, Maxence; Alemanno, Giulia; Vandaele, Ann C.; Helbert, Jorn

Coffee Break

Room: EC1-214

B4.2-0028-24 15:00 - 15:15

Venus Cloud Catcher: Proof of Concept of Electrostatic Aerosol Deposition Collector
Iakubivskyi, Iaroslav; Seager, Sara; Carr, Christopher E.; Nellutla, Snigdha; Agrawal, Rachana; Petkowski, Jansuz; Buchanan, Weston P.; A. Moreno, M. Regina

B4.2-0029-24 15:15 - 15:30

The Microwave Radiometric Sounder (MWRS) of the Venus Volcano Imaging and Climate Explorer (VOICE)
Dong, Xiaolong; He, Jieying; Zhang, Zijin; Zhu, Haotian; Wang, Wenyu

B4.2-0030-24 15:30 - 15:45

Simulation of the Venusian mesosphere wind measurement of the Microwave Radiometric Sounder
Zhang, Zijin; Dong, Xiaolong

B4.2-0031-24 15:45 - 16:00

Long-term Monitoring Plan of Venus using Earth-orbiting CubeSats
Lee, Yeon Joo Team: CLOVE team p. 449

B4.2-0032-24 16:00 - 16:15

A New Strategy for the Exploration of Venus
Byrne, Paul; Dong, Chuanfei; Fowler, Christopher; Gregg, Tracy; Gülcher, Anna; Hunter, Gary; Royer, Emilie; Santos, Alison; Izenberg, Noam R.

B4.2-0033-24 16:15 - 16:30

Exploring the Clouds of Venus with a Variable Altitude Aerobot
Cutts, James; Baines, Kevin; Byrne, Paul; Izraelevitz, Jacob; Krishnamoorthy, Siddharth

Lunch Break

Room: EC1-214

B4.2-0034-24 17:00 - 17:15

Venera-D: A Mission for Comprehensive Study of Venus
Zelenyi, Lev; Gorinov, Dmitry; Korablev, Oleg; Zasova, Ludmila; Ignatiev, Nikolay; Gerasimov, Mikhail V.; Rodionov, Daniel; Ivanov, Mikhail; Eismont, Natan; Evdokimova, Daria

B4.2-0035-24 17:15 - 17:30

Design of a Mission to Venus Using Resonant Orbit Transfer Under the Lander-Orbiter Constraints
Zubko, Vladislav; Eismont, Natan; Nazirov, Ravil; Fedyaev, Konstantin; Gorinov, Dmitry; Zasova, Ludmila; Belyaev, Andrey

B4.2-0036-24 17:30 - 17:45

DAPPLE: A Concept for an Origami-Inspired Deployable Probe to Explore Venus
Mani, Vipul

Fri, Jul 19, 2024

B4.3 Mars Science Results

Main Scientific Organizer: Sefton-Nash, Elliot
Deputy Organizer: Hays, Lindsay; Kminek, Gerhard

Room: EC1-217

B4.3-0001-24 15:00 - 15:30

Results from the Emirates Mars Mission Hope Probe
Almazmi, Hoor; Deighan, Justin; Edwards, Christopher; Wolff, Michael; Jain, Sonal; Holsclaw, Greg; Chaffin, Michael; Fillingim, Matthew; Lillis, Robert; Chirakkil, Krishnaprasad; Raghuram, Susarla; England, Scott; Brain, David; Osterloo, Mikki; Shuping, Ralph; Smith, Michael; Forget, Francois; Atwood, Samuel; Fan, Siteng; Gebhardt, Claus; Fernando, Anton

B4.3-0002-24 15:30 - 15:45

Ionospheric depletions at Mars as observed by MAVEN
Regoli, Leonardo; Fowler, Christopher; Basuvaraj, Praveen; Xu, Shaosui; Madanian, Hadi; Gkioulidou, Matina; Nemec, Frantisek

B4.3-0003-24 15:45 - 16:00

Solar Wind Turbulence Spectrum in Martian Upstream Solar Wind
Zou, Zhuxuan; Wang, Yuming

B4.3-0004-24 16:00 - 16:15

The Mars atmosphere as revealed by ACS/TGO ExoMars experiment
Korablev, Oleg; Montmessin, Franck Team: ACS Team p. 446

B4.3-0005-24 16:15 - 16:30

Characterizing Arsia Mons clouds using OMEGA and CRISM
Nair, Ashwathy; van Ruitenbeek, Frank; Bakker, Wim; Foing, Bernard H.

Coffee Break

Room: EC1-217

B4.3-0006-24 17:00 - 17:15

The seasonal variations in frequency of cloud trains associated with mountain lee waves in the Martian northern hemisphere
Ogohara, Kazunori; Ro, Maaya; Kanda, Ayana

B4.3-0007-24 17:15 - 17:30

MARTIAN PECULIAR CLOUDS: DOTS ISOLATED AND NARROW-ELONGATED
Sanchez-Lavega, Agustin; Hernandez-Bernal, Jorge; Del Rio-Gaztelurrutia, Teresa

B4.3-0008-24 17:30 - 17:45

Whitening events observed in the Valles Marineris on Mars
Okuno, Sho; Ogohara, Kazunori

B4.3-0009-24 17:45 - 18:00

Quasiperiodicity in Martian Surface Winds : An Operations Opportunity ?
Lorenz, Ralph

B4.3-0010-24 18:00 - 18:15

Lessons Learned for Mars Methane Exploration from an Arctic Analogue Deployment
Dong, Elisa; Sapers, Haley; Moores, John; Innanen, Alex

Fri, Jul 19, 2024

B4.4 Forward Planning for the Exploration of Mars

Main Scientific Organizer: Haltigin, Timothy
Deputy Organizer: Hays, Lindsay; Kminek, Gerhard; Matousek, Steven

Room: EC1-217

B4.4-0001-24 09:00 - 09:15
Radio communications and navigation on Mars without artificial satellites
Thomas, Andrew

B4.4-0002-24 09:15 - 09:30
A new Science Readiness Level Standard for the development of planetary science instruments and missions
Hipkin, Victoria; Moores, John Team: CSA SRL Working Group Members p. 449

B4.4-0003-24 09:30 - 09:45
Effect of Martian Dust on Rotorcraft Airfoil Performance: A Numerical Study
Giacomini, Enrico; Westerberg, Lars-Göran

B4.4-0004-24 09:45 - 10:00
Low-energy low-thrust trajectory design for tours of the Martian moons
Ivanyukhin, Alexey; Petukhov, Viacheslav; Yoon, Sung Wook

B4.4-0005-24 10:00 - 10:15
MARTIANS (MARs2020, TIANwen and So on) would see more potentially hazardous asteroids than earthmen
Zhou, Yufan; Li, Hailiang; Li, Zhiyuan; Zhou, Liyong

B4.4-0006-24 10:15 - 10:30
The Icebreaker Life Mission: Exploring Mars for Biomolecular Evidence of Recent Life
Glass, Brian; Heldmann, Jennifer; Mckay, Chris; Parro, Victor; Stern, Jennifer; Quinn, Richard; Eigenbrode, Jennifer; Stoker, Carol; Zacny, Kris; Warwick, Richard

Coffee Break

Room: EC1-217

B4.4-0007-24 11:00 - 11:15
Mars Sample Return Science Management & Opportunities
Kminek, Gerhard; Hays, Lindsay

Fri, Jul 19, 2024

C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies

Main Scientific Organizer: Fagundes, Paulo Roberto
Deputy Organizer: Kavutarapu, Venkatesh

Neutral atmosphere and Ionosphere vertical coupling

Chair: Pallamraju, Duggirala
Room: EC1-312

C1.1-0031-24 11:00 - 11:30 (solicited)
Connections between polar vortex, gravity waves, and mid-latitude traveling ionospheric disturbances
Goncharenko, Larisa; Derghazarian, Sevag; Harvey, V Lynn; Randall, Cora; Zhang, Shunrong; Coster, Anthea

C1.1-0032-24 11:30 - 11:45
Vertical Coupling during a Major Sudden Stratospheric Warming as Observed by NASA's ICON and GOLD Satellites at Low- to Middle-Latitudes: A Case Study of the 2020/2021 Sudden Warming Event
Yiğit, Erdal; Gann, Ayden; Medvedev, Alexander S.; Gasperini, Federico; Wu, Qian; Sakib, Md Nazmus

C1.1-0033-24 11:45 - 12:00
Open-Source Solution for Processing and Scaling Canadian Advanced Digital Ionosonde (CADI) Ionograms.
Venkateswara Rao, Tanneeru; Sridhar, Miriyala; Devanaboyina, Venkata Ratnam; Ramana, G Venkata

C1.1-0034-24 12:00 - 12:30 (solicited)
Low- and mid-latitude F region ionospheric response to geomagnetic storms and after-storm effects
Klimenko, Maxim; Klimenko, Vladimir; Ratovsky, Konstantin; Vesnin, Artem; Dmitriev, Alexei; Suvorova, Alla

Coffee Break

Ionospheric Dynamics and Space weather

Room: EC1-312

C1.1-0035-24 15:00 - 15:30 (solicited)
The Forcing from Below and the Longitudinal Dependence of Its Impact on Ionospheric Dynamics
Yizengaw, Endawoke; Groves, Keith

C1.1-0036-24 15:30 - 15:45
Investigation of Nighttime Merged EIA Based on NASA GOLD Observations from 2018 to 2023
Qian, Liying; Wu, Kun; Wang, Wenbin; Cai, Xuguang; McInerney, Joseph

C1.1-0037-24 15:45 - 16:00
Study of the influence of polarization jet/SAID on the propagation of tranospheric radio signal of gnss satellites
Sinevich, Aleksandr; Chernyshov, Alexander; Chugunin, Dmitriy; Kotova, Daria; Mogilevsky, Mikhail; Miloch, Wojciech

C1.1-0038-24 16:00 - 16:15
The NASA Atmospheric Waves Experiment: Initial Results
Zhao, Yucheng; Xu, Shuang; Pautet, Pierre-Dominique; Zhang, Jiarong; Sevilla, Pedro; Latvakoski, Harri; Cantwell, Greg; Scherliess, Ludger; Taylor, Michael; Lamborn, Burt

C1.1-0039-24 16:15 - 16:30

Tidal composition analysis of global Sq current system
Chen, Sony Su; Yamazaki, Yosuke; Denardini, Clezio Marcos; Resende, Laysa; A. J. Chagas, Ronan; Stolle, Claudia

Lunch Break

Ionospheric Dynamics and Space weather
Room: EC1-312

C1.1-0040-24 17:00 - 17:15

Earth's mesosphere during encounters with interstellar clouds in the past 10 million years
Miller, Jesse; Opher, Merav; Hatzaki, Maria; Papachristopoulou, Kyriakoula; Thomas, Brian

C1.1-0041-24 17:15 - 17:30

Recent observation of the ionospheric meso-scale structures associated with equatorial ionization anomaly
Xiong, Chao; Huang, Yuyang; Rang, Xinyi; Zheng, Yuhao

C1.1-0042-24 17:30 - 17:45

The Third Plasma Density Peak at Poleward of EIA Crest: Swarm and ICON Observations
Huang, Yuyang; Xiong, Chao; Wan, Xin; Park, Jaeheung; Spogli, Luca

C1.1-0043-24 (WITHDRAWN) 17:45 - 18:00

Conjugate hemispheric response of Earth's ionosphere to Antarctic and Arctic Sudden Stratospheric Warming (SSW) events: case studies
Gogoi, Jinee; Bhuyan, Kalyan; Kalita, Bitap Raj; Vaishnav, Rajesh

C1.1-0044-24 18:00 - 18:15

On the variations of TEC buildup rate over the low latitudes along 80o E longitude during solar cycles 23 and 24
Srinivasu, Vkd; Kavutarapu, Venkatesh; Prasad, Dsvvd

C1.1-0045-24 18:15 - 18:30

Semidiurnal Lunar wave controlled equatorial ionospheric vertical plasma drifts during sudden stratospheric warming
Peddapati, Pavanchaitanya; Patra, Amit; Otsuka, Yuichi; Yokoyama, Tatsuhiro; Yamamoto, Mamoru

Coffee Break

Ionospheric Dynamics and Space weather
Room: EC1-312

C1.1-0046-24 09:00 - 09:15

Multi-Satellite Observational Analysis of Water Vapor Trends in the Extratropical Middle Atmosphere
Li, Tao; Yang, Chengyun

C1.1-0047-24 09:15 - 09:30

Incoherent scatter radar signal processing in the presence of interference and the study of the E-region dynamics
Zhou, Qihou; Zhou, Qihou; Li, Yanlin; Gong, Yun

C1.1-0048-24 09:30 - 09:45

Multipoint Observations of the Ionosphere
Andersson, Laila Team: GDC AETHER p. 450

C1.1-0049-24 (WITHDRAWN) 09:45 - 10:00

A numerical study on the impact of E $\times$ B drift on the vertical distribution of the plasma density over the geomagnetic equatorial ionospheric region
Ashok, Arya; K M, Ambili; Choudhary, Raj Kumar

C1.1-0050-24 10:00 - 10:15

Future thermospheric neutral density reductions due to carbon dioxide under varying solar activity conditions.
Brown, Matthew; Lewis, Hugh G.; Kavanagh, Andrew; Cnossen, Ingrid; Elvidge, Sean

C1.1-0051-24 10:15 - 10:30

The numerical simulations of reflection index dynamics coursed by an electromagnetically driven Langmuir turbulence
Kochetov, Andrey

Fri, Jul 19, 2024

C1.2 Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras

Main Scientific Organizer: Jee, Geonhwa
Deputy Organizer: Wang, Wenbin

Room: EC1-313

C1.2-0001-24 15:00 - 15:15

Cusp aurora during multiple transpolar arcs – an interhemispheric conjunction study
Kullen, Anita; Holmen, Cecilie; Thor, Simon; Katrougkalou, Maria Chloi; Cai, Lei; Zhang, Yongliang

C1.2-0002-24 15:15 - 15:30

Spontaneous generation of parallel electric field and auroral growth in a nonlinear gyrokinetic M-I coupling model
Fujita, Keiji; Watanabe, Tomo-Hiko

C1.2-0003-24 15:30 - 16:00 (solicited)

Mapping of the cusp/LLBL precipitations to the ionosphere with ground-based auroral observation
Yang, Huigen; Zhang, Shunyao; Xing, Zhanyang; Zhao, Huayu; Li, Bin; Sun, Jicheng; Hu, Zejun; Huang, Dehong; Liu, Jianjun Team: UAP@PRIC p. 460

C1.2-0004-24 16:00 - 16:15

A DMSP data analysis: transpolar arcs are not always cusp-aligned. Evidence of HiLDA-aligned arcs
Katrougkalou, Maria Chloi; Kullen, Anita; Cai, Lei; Roth, Lorenz; Zhang, Yongliang

C1.2-0005-24 16:15 - 16:30

Seasonal and interhemispheric variations of the afternoon auroral responses to the IMF By polarity
Luan, Xiaoli; Zhu, Shengting; Lei, Jiuhou

Coffee Break

Room: EC1-313

C1.2-0006-24 17:00 - 17:15

Modeling of ionospheric conductivity variations driven by pulsation auroras using SPEAH-RIT and STET codes
Kang, Suk Bin; Khazanov, George; Glocer, Alex; Ma, Qianli

C1.2-0007-24 17:15 - 17:30
The Apparent Motion of Auroral Turbulence
Ivarsen, Magnus

C1.2-0008-24 17:30 - 18:00 (solicited)
Statistical investigation of auroral activities and their connection to background ionospheric conditions using GNSS receiver networks
Zhang, Shun-Rong; Aa, Ercha; Erickson, Philips; Coster, Anthea

C1.2-0009-24 18:00 - 18:15
Long-lasting stabilized enhanced power of near-range echoes in association with midnight geomagnetic disturbances and polar mesospheric summer echoes
Lee, Youngsook; Miyashita, Yukinaga; Kadokura, Akira; Singh, Ram; Jee, Geonhwa; Kwak, Young-Sil; Kim, Yongha; Lester, Mark; Johnsen, Magnar G.

C1.2-0010-24 18:15 - 18:30
Characterization of the Van Allen Radiation Belt Proton and Electron Fluxes Using SDO Spikes Data
Kasapis, Spiridon; Thompson, Barbara; Cucho Padin, Gonzalo; Rodriguez, Juan; Attie, Raphael

Fri, Jul 19, 2024

C1.4 Space Weather and Earth's Atmosphere-Ionosphere

Main Scientific Organizer: Pedatella, Nicholas
Deputy Organizer: Chang, Loren

Room: EC1-313

C1.4-0035-24 (WITHDRAWN) 09:00 - 09:15
Prediction of foE using Neural Network over Chumphon, Thailand and its comparison with the IRI model
Wichaipanich, noraset; Nishioka, Michi; Supnithi, Pornchai

C1.4-0036-24 (WITHDRAWN) 09:15 - 09:30
Regional map of ionospheric F2-layer peak height (hmF2) over Southeast Asia
Khuangsatung, Sakkrapop

C1.4-0037-24 09:30 - 09:45
Operational thermospheric neutral density forecasting with AENeAS for the UK MOSWOC.
Brown, Matthew; Elvidge, Sean; Themens, David

C1.4-0038-24 09:45 - 10:05 (solicited)
FORMOSAT-7/COSMIC-2 observations of ionosphere responses to forcing from Sun to Earth's surface
Lin, Charles; Rajesh, P. K.; Lin, Chi-Yen; Chen, Shih-Ping; Choi, Jongmin

C1.4-0039-24 (WITHDRAWN) 10:05 - 10:20
Convolutional Neural Network model to predict ionospheric conditions using space weather parameters
Gafeira, Ricardo; Morozova, Anna; Barata, Teresa; Barlyaeva, Tatiana

Coffee Break

Room: EC1-313

C1.4-0040-24 11:00 - 11:15
Atmosphere-Ionosphere-Coupling and Joule heating
Buchert, Stephan

C1.4-0041-24 11:15 - 11:30
Morphology of the Main Ionospheric Trough - statistical description
Przepiórka-Skup, Dorota; Rothkaehl, Hanna

C1.4-0042-24 11:30 - 11:45
Comparative Analysis of Force Interactions on Exospheric Hydrogen Atoms: A Kinetic Simulation Study
Lee, Sang-Yun; Connor, Hyunju; Jung, Jaewoong

C1.4-0043-24 11:45 - 12:00
Multi-decadal Critical Behaviour in the Space weather System
Wanliss, James

Fri, Jul 19, 2024

C4.1 International Reference Ionosphere: Improvements, Validation, and Applications

Main Scientific Organizer: Bilitza, Dieter
Deputy Organizer: Kwak, Young-Sil

Progress Towards Real-Time IRI

Chair: Watanabe, Shigeto
Room: EC1-311

C4.1-0001-24 09:00 - 09:30 (solicited)
The International Reference Ionosphere (IRI) – Current Status and Plans for the Future
Bilitza, Dieter

C4.1-0002-24 09:30 - 10:00 (solicited)
Neal-real time prediction of the ionospheric electron density based on multi- instrumental observations
Xiong, Chao; Gao, Shunzu; Wu, Jie; Jiang, Qihui; Zheng, Yuhao

C4.1-0003-24 10:00 - 10:15
A Real Time IRI Data Assimilation Model
Reid, Benjamin; Themens, David R.; Elvidge, Sean Team: University of Birmingham Advanced Research Computing p. 460

C4.1-0004-24 10:15 - 10:30
Assimilating Low Earth Orbit Radio Occultation Satellites for Global 3D Ionosphere Modeling
Mengist, Chalachew Kindie; Seo, Kyong-Hwan; Kwak, Young-Sil; Kim, Yongha; Khim, Boo- Keun

Coffee Break

IRI in the Lower Ionosphere

Chair: Bilitza, Dieter
Room: EC1-311

C4.1-0005-24 11:00 - 11:30 (solicited)
A global model of the occurrence probability of sporadic E for the International Reference Ionosphere
Truhlik, Vladimir; Bilitza, Dieter; Arras, Christina; Haralambous, Haris

C4.1-0006-24 11:30 - 12:00 (solicited)
Verification of Spaceborne Sporadic E Detection with ground-based ionosonde measurements
Kim, Yongha; Lee, Yongho; Lee, Youngsook; Shin, Daekyu; Choi, Kyucheol; Oh, Seung Jun

C4.1-0007-24 12:00 - 12:15
High Latitude Sporadic-E Climatology and Empirical Modeling
Themens, David R.; Arras, Christina; Meziane, Karim; McCaffrey, Anthony; Ruck, Joshua; Reid, Benjamin; Jayachandran, Thayyil; Elvidge, Sean; Brown, Matthew

C4.1-0008-24 12:15 - 12:30
The Data-Driven D-Region Model: A Case for a New Option in the International Reference Ionosphere Model
Egert, Austin; Eccles, J Vincent

Lunch Break

IRI and GNSS TEC

Chair: Truhlik, Vladimir
Room: EC1-311

C4.1-0009-24 15:00 - 15:30 (solicited)
25 Years of Operation of the IGS Ionosphere Working Group
Krankowski, Andrzej; Hernandez-Pajares, Manuel; Froń, Adam; Komjathy, Attila; Li, Zishen; Schaer, Stefan; Wang, Ningbo; Cherniak, Iurii; Kotulak, Kacper; Flisek, Paweł

C4.1-0010-24 15:30 - 16:00 (solicited)
Effect of F-layer peak parameters on the uncertainties in estimating ionospheric electron density profiles and Total Electron Content (TEC) over the low latitudes
Kavutarapu, Venkatesh; Pallamraju, Duggirala; Suryawanshi, Pradip

C4.1-0011-24 16:00 - 16:15
TEC Correlations: Madrigal GNSS Data vs. WACCM-X SD Weimer and IRI-2020 Models during the 2015 St. Patrick's Day Geomagnetic Storm
Jamlongkul, Paparin; Wannawichian, Suwicha; Paxton, Larry; Cantrall, Clayton; Supnithi, Pornchai; Budtho, Jirapoom

C4.1-0012-24 16:15 - 16:30
GPS Delay Time at Low Latitude During Severe Geomagnetic Storm
Keokhumcheng, Thanapon; Pansong, Chollada; Promsuk, Chutimon; Kenpankho, Prasert

Coffee Break

IRI in the Topside and Plasmasphere

Chair: Kim, Yongha
Room: EC1-311

C4.1-0013-24 17:00 - 17:30 (solicited)
Satellite observations and modeling of plasmapause
Watanabe, Shigeto

C4.1-0014-24 17:30 - 17:45
O+ [U+2010]Chapman Scale Height: Altitudinal Variation and Its Influence on Deriving Transition height
Gao, Shunzu; Xiong, Chao; Zhu, Ziyuan; Huang, Yuyang

C4.1-0015-24 17:45 - 18:00
GNSS low-cost robotic platform investigation on ionospheric disturbances
Sumniang, Patiphan; Huang, Canjie; Boonchu, Nuttarinee; Kenpankho, Prasert

C4.1-0016-24 18:00 - 18:15
Improvement of IGS-3D Electron Density (Ne) Models by Deep Learning
Ji, Eun-Young; Moon, Yong-jae; Kwak, Young-Sil; Yi, Kangwoo; Kim, Jeongheon

C4.1-0017-24 18:15 - 18:30
A Comparison of EGIM and IRI-2020 Model Over North-east Africa Under Different Ionospheric Conditions
Abdalla, Abdalla Shaker; Nooreldeen, Hassan; Hussein, Amira; Mahmoud, Ayman

Fri, Jul 19, 2024

D1.3 Magneto-plasma Structures, Streams and Flows in the Heliosphere

Main Scientific Organizer: Khabarova, Olga
Deputy Organizer: Malandraki, Olga

Room: CON-103

D1.3-0023-24 11:00 - 11:30 (solicited)
Low-Atmospheric Morphological and Topological Imprints of Eruptive Solar Magnetic Configurations
Georgoulis, Manolis K.

D1.3-0024-24 11:30 - 11:45
Coronal dimmings associated with coronal mass ejections for modeling ICME in the 24th solar cycle
Vakhrusheva, Anna; Shugay, Yulia; Kaportseva, Ksenia; Eremeev, Valery; Kalegaev, Vladimir

D1.3-0025-24 11:45 - 12:00
Heliospheric current sheet structure within the inner heliosheath inferred from Voyager 2 observations
Choi, Dooyoung; Lee, Dae-Young; Choi, Kyung-Eun; Noh, Sung Jun

D1.3-0026-24 12:00 - 12:15
Sliding-window cross-correlation and mutual information methods in the analysis of solar wind measurements
Gu, Chaoran; Heidrich-Meisner, Verena; Wimmer-Schweingruber, Robert

D1.3-0027-24 12:15 - 12:30
HIGH-LATITUDE CONIC CURRENT SHEETS IN THE POLAR HELIOSPHERE AND THEIR ROTATION
Kislov, Roman

Coffee Break

Room: CON-103

D1.3-0028-24 (WITHDRAWN) 15:00 - 15:15
Morphology of magnetic holes
Trollvik, Henriette; Karlsson, Tomas

D1.3-0029-24 (WITHDRAWN) 15:15 - 15:30

Exploring Interplanetary Small Flux Ropes: A Comprehensive Review
Winslow, Reka; Banu, Sahanaj; Murphy, Amy; Lugaz, Noé; Al-Haddad, Nada; Farrugia, Charles

D1.3-0030-24 15:30 - 15:45

Statistical properties of high-latitude coronal mass ejections in 1996-2023
Reshef, Hadar; Samara, Nuran; Tishler, Noam; Khabarova, Olga; Price, Colin

D1.3-0031-24 15:45 - 16:00

Comparison of I-ICME and M-ICME Fittings and In Situ Observation Parameters for Solar Cycles 23 and 24 and Their Influence on Geoeffectiveness
Zhang, Zhiyong; Shen, Chenglong; Chi, Yutian; Mao, Dongwei; Xu, Mengjiao; Liu, Junyan; Zhong, Zhihui; Wang, Can

D1.3-0032-24 16:00 - 16:30 (solicited)

Magnetic flux rope structures in the Heliosphere
Hu, Qiang; Chen, Yu

Lunch Break

Room: CON-103

D1.3-0033-24 17:00 - 17:15

In situ verification of the helium-enriched current presence inside ICME
Khokhlachev, Alexander; Yermolaev, Yuri; Lodkina, Irina; Riazantseva, Maria; Rakhmanova, Liudmila

D1.3-0034-24 17:15 - 17:30

How current sheets impact the solar wind flowing
Evdokimova, Marina; Khabarova, Olga; Malova, Helmi; Kislov, Roman; Popov, Viktor

D1.3-0035-24 17:30 - 18:00

The in situ shock acceleration of solar wind suprathermal electrons at 1 AU
Wang, Linghua; Liu, Zixuan; Guo, Xinnian; Yang, Liu; Wimmer-Schweingruber, Robert; Bale, Stuart

Fri, Jul 19, 2024

D1.7 Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays

Main Scientific Organizer: Ruffolo, David
Deputy Organizer: Munakata, Kazuoki

Room: CON-101

D1.7-0001-24 17:00 - 17:30 (solicited)

Applications of ground albedo cosmic-ray neutron sensing in hydrology, agriculture, and environmental science
Schrön, Martin; Hertle, Lasse; Zacharias, Steffen

D1.7-0002-24 17:30 - 17:45

Impact of the Halloween GLE Events on Radiation Doses at Aviation Altitudes
Larsen, Nicholas; Mishev, Alexander

D1.7-0003-24 17:45 - 18:00

Electron acceleration in thunderclouds induced by cosmic-ray air showers observed by citizen science "Thundercloud Project"
Tsurumi, Miwa; Enoto, Teruaki; Ikkatai, Yuko; Wu, Ting; Wang, Daohong; Shinoda, Taro; Nakazawa, Kazuhiro; Tsuji, Naoki; Diniz, Gabriel; Kataoka, Jun; Kamogawa, Masashi; Takagaki, Toru; Miyake, Shoko; Morimoto, Takeshi; Nakamura, Yoshitaka; Tsuchiya, Harufumi

D1.7-0004-24 18:00 - 18:15

The distribution map of cosmic ray under the influence of the geomagnetic effects
Chen, Long

D1.7-0005-24 18:15 - 18:30

Transient large-scale anisotropy in TeV-range cosmic rays measured by LHAASO during passage of an interplanetary flux rope during 2021 November
Ruffolo, David; Koennonkok, Kritsanon; Ruangpongsiri, Nutthanon; Mitthumsiri, Warit; Ye, Xuanang; Zhang, Yi; Liu, Wei Team: LHAASO p. 454

Coffee Break

Room: CON-101

D1.7-0006-24 09:00 - 09:15

Rigidity spectrum of GCR anisotropy inferred from ground-based muon observation
Kozai, Masayoshi Team: GMDN collaboration p. 451

D1.7-0007-24 09:15 - 09:30

Spectral variation during Forbush decreases of cosmic rays: Global fit to ground-based data compared with neutron monitor leader fraction
Mitthumsiri, Warit; Ruffolo, David; Munakata, Kazuoki; Hayashi, Yuki; Kato, Chihiro; Sáiz, Alejandro; Nuntiyakul, Waraporn; Banglieng, Chanoknan; Muangha, Pradipat Team: GMDN Collaboration p. 451

D1.7-0008-24 09:30 - 09:45

Variation of the cosmic ray spectrum during Forbush decreases
Blanco, Juan Jose; Arrazola, D.; Hidalgo, Miguel Angel; Ayuso, Sindulfo; Regadío, Alberto; Garcia, Oscar; García-Tejedor, Juan Ignacio; Guerrero, Carlo Luis; Cerviño, Pablo

D1.7-0009-24 09:45 - 10:00

Extended cosmic-ray decreases observed with global networks of neutron monitors and muon detectors in 2012
Munakata, Kazuoki; Hayashi, Yuki; Kato, Chihiro Team: GMDN (Global Muon Detector Network) collaboration p. 451

D1.7-0010-24 10:00 - 10:15

Analysis of Neutron Monitors at Different Altitudes and Similar High Cutoff Rigidity
Khamphakdee, Sidarat; Nuntiyakul, Waraporn; Banglieng, Chanoknan; Seripienlert, Achara; Yakum, Panutda; Ruffolo, David; Sáiz, Alejandro; Evenson, Paul; Munakata, Kazuoki; Madsen, James; Komonjinda, Siramas; Somboon, Ekkarach

D1.7-0011-24 (WITHDRAWN) 10:15 - 10:30

Neutron Monitor Multiplicity, its Pressure Correction, and Changes During Transient Events
Lema, Bogale Tilahun; Strauss, Du Toit; Poluianov, Stepan; Giday, Nigussie Mezgebe; Seba, Ephrem; Diedericks, Corrie; Hüttmann, Heidar; Virtanen, Ilpo

Fri, Jul 19, 2024

D2.2-E3.2 Heliospheric Variability, its Solar Sources and Impacts on Solar System Objects

Main Scientific Organizer: Dumbovic, Mateja
Deputy Organizer: Janvier, Miho

space weather at planets and exoplanets

Room: CON-101

D2.2-0026-24 11:00 - 11:15

The SMDC CME Forecasting System: An Analysis of the Geoeffective Event Selection Algorithm
Kaportseva, Ksenia; Vakhrusheva, Anna; Shugay, Yulia; Shiryaev, Anton; Eremeev, Valery; Kalegaev, Vladimir

D2.2-0027-24 11:15 - 11:30

Solar Cycle Dependence of NOAA Space Weather Scales
Kim, Daeil; Moon, Yong-jae; Jeong, Hyun-Jin; Son, Jihyeon

D2.2-0028-24 11:30 - 11:45

Changes in the non-linear statistical dependence between solar wind and geomagnetic conditions during the solar cycle 23
Hoilijoki, Sanni; Kilpua, Emilia; Osmane, Adnane; Turc, Lucile; Savola, Mikko; Lipsanen, Veera; Kalliokoski, Milla; George, Harriet

D2.2-0029-24 11:45 - 12:00

An investigation of the magnetic field extended from solar coronal holes toward the Earth as a trigger of geomagnetic disturbances
Park, Sung-Hong; Jang, Seohee

D2.2-0030-24 12:00 - 12:30 (solicited)

Exploring Exoplanet´s habitability: the role of the space weather conditions and magnetosphere radio-emission
Varela Rodriguez, Jacobo; Brun, Allan Sacha; Strugarek, Antoine; Reville, Victor; Zarka, Philippe; Pantellini, Filippo

Coffee Break

extreme events, space climate and solar-stellar connection

Room: CON-101

D2.2-0031-24 15:00 - 15:15

Solar Superstorm in February 1872: Archival Analyes from Source Active Regions to Terrestrial Impacts
Hayakawa, Hisashi

D2.2-0032-24 15:15 - 15:30

Advancing Toward Unified Solar Variability: The Sunspot Number Version 3
Bhattacharya, Shreya; Lefevre, Laure

D2.2-0033-24 15:30 - 15:45

Multi-decadal heliospheric variability. Connections to some terrestrial processes
Demetrescu, Crisan; Stefan, Cristiana; Dobrica, Venera

D2.2-0034-24 15:45 - 16:15 (solicited)

How Connected is the Solar-Stellar Connection?
Drake, Jeremy

Fri, Jul 19, 2024

D3.5 Role of Mesoscale Coupling as the Driver of System Level Storm and Substorm Dynamics in Geospace

Main Scientific Organizer: Grigorenko, Elena
Deputy Organizer: Gkioulidou, Matina

Substorm dynamics and associated phenomena

Chair: Grigorenko, Elena
Room: CON-102

D3.5-0001-24 09:00 - 09:20 (solicited)

A global context for substorms
Sibeck, David; Murphy, Kyle

D3.5-0002-24 09:20 - 09:40 (solicited)

Substorm Influence on The Dayside Ionospheric Currents
Elhawary, Reham; Laundal, Karl; Reistad, Jone Peter; Madelaire, Michael; Ohma, Anders

D3.5-0003-24 09:40 - 09:55

The influence of the orientation of geomagnetic observatory coordinate systems on the interpretation of magnetic storm development
Zhumabayev, Beibit; Vassilyev, Ivan; Fedulina, Inna

D3.5-0004-24 09:55 - 10:15 (solicited)

Supersubstorms (SSSs): on their origin, properties and energetics
Hajra, Rajkumar; Tsurutani, Bruce

Coffee Break

Magnetosphere-Ionosphere coupling during active periods

Chair: Gkioulidou, Matina
Room: CON-102

D3.5-0005-24 11:00 - 11:20 (solicited)

A Magnetosphere-Ionosphere Alfvén Wave Exchange Model for Substorm Onset
Mann, Ian

D3.5-0006-24 11:20 - 11:35

Multiscale Magnetosphere-Ionosphere Coupling in the Sub-Auroral Geospace
Streltsov, Anatoly; Mishin, Evgeny

D3.5-0007-24 11:35 - 11:55 (solicited)

The Cross-scale INvestigation of Earth's Magnetotail and Aurora (CINEMA) Mission Concept
Millan, Robyn; Ukhorskiy, Aleksandr; Gallardo-Lacourt, Bea; Kepko, Larry; Mende, Stephen; Merkin, Viacheslav; Motoba, Tetsuo; Ohtani, Shin; Regoli, Leonardo; Sample, John; Sergeev, Viktor; Sotirelis, Thomas; Spanswick, Emma; Syrstad, Erik; Vievering, Juliana T.; Wu, Yen-Jung; Zesta, Eftyhia; Cantwell, Kelly; Gasque, Lilias; Michael, Adam; Shumko, Mykhaylo; Turner, Drew

D3.5-0008-24 11:55 - 12:10

Mesoscale Processes in the Magnetosphere: The Elusive Mode of Plasma Transport and Energization and the Measurements Needed to Bring it to Light.
Gkioulidou, Matina; Demajistre, Robert; Mitchell, Donald; Nikoukar, Romina; Brandt, Pontus; Sciola, Anthony; Roelof, Edmond

D3.5-0009-24 12:10 - 12:30 (solicited)

Role of dipolarization front in the magnetospheric substorm dynamics
Fu, Huishan; Grigorenko, Elena; Cao, Jinbin

Lunch Break

Energy conversion and transport in the magnetotail and their impact on substorms - I
Room: CON-102

D3.5-0010-24 15:00 - 15:20 (solicited)

Thin current sheet in Earth's magnetotail: equatorial and low-altitude observations
Artemyev, Anton; Angelopoulos, Vassilis; Zhang, Xiao-Jia; Runov, Andrei

D3.5-0011-24 15:20 - 15:40 (solicited)

Electron inertia contribution to the nonideal processes inside the diffusion region of magnetic reconnection
Divin, Andrey; Korovinskiy, Daniil; Kiehas, Stefan; Zhong, Dahua; Paramonik, Igor; Semenov, Vladimir

D3.5-0012-24 15:40 - 15:55

Alfvén Wave Features on Low-frequency Waves in the Plasma Sheet Associated with Dipolarization for Substorms and Pseudosubstorms
Kasonsuwan, Kanpatom; Miyashita, Yukinaga; Wannawichian, Suwicha

D3.5-0013-24 15:55 - 16:10

Plasma Sheet Characterization During Geomagnetic Activity using MMS
Raptis, Savvas; Merkin, Viacheslav; Ohtani, Shin; Gkioulidou, Matina

Fri, Jul 19, 2024

D3.7 Machine Learning and Data Sciences

Main Scientific Organizer: Shprits, Yuri
Deputy Organizer: Balasis, Georgios; Wing, Simon

Room: CON-104

D3.7-0001-24 09:00 - 09:30 (solicited)

PROBOOST: PROBABILISTIC BOOSTING FOR FORECASTING RARE AND EXTREME EVENTS IN SPACE WEATHER
Camporeale, Enrico; Hu, Andong; Lucas, Greg; Knuth, Jennifer; Berger, Thomas

D3.7-0002-24 09:30 - 09:45

Data Amalgamation via the Heliophysics API (HAPI) in Analysis Codes
Antunes, Alex; Weigel, Robert; Vandegriff, Jon

D3.7-0003-24 09:45 - 10:15 (solicited)

Applications of Information Theory to Space Physics
Johnson, Jay; Wing, Simon; Martin, Wesley; Rivera, Elmer; Delamere, Peter; Ma, Xuanye; Mino, Blake; Neupane, Bishwa

D3.7-0004-24 10:15 - 10:30

Deep learning the forecast of cosmic-rays spectra
Du, Yilun; Song, Xiaojian; Luo, Xi

Coffee Break

Room: CON-104

D3.7-0005-24 11:00 - 11:15

Characterizing the performance of Generative Models of Galaxy Images Conditioned on Redshift
Boscoe, Bernadette

D3.7-0006-24 11:15 - 11:30

Predicting Active Region Emergence Using an LSTM Machine Learning Model
Kasapis, Spiridon; Kitiashvili, Irina; Kosovichev, Alexander; Stefan, John; Apte, Bhairavi

D3.7-0007-24 11:30 - 11:45

Data-driven, multi-moment fluid modeling of Landau damping using machine learning
Dong, Chuanfei; Fu, Haiyang; Wang, Liang

D3.7-0008-24 11:45 - 12:00

Solar Magnetic Tornado Detection Using Neural Networks
Blumenau, Mark; Nikitin, Ilia; Khabarova, Olga; Vorobev, Dmitrii

D3.7-0009-24 12:00 - 12:15

Forecasting SEP Events During Solar Cycles 23 and 24 Using Machine Learning
Kasapis, Spiridon; Kitiashvili, Irina; Kosovichev, Alexander; Sadykov, Viacheslav; Kosovich, Paul; O'keefe, Patrick; Wang, Vincent

D3.7-0010-24 12:15 - 12:30

The importance of imbalanced regression: application in space physics
Chu, Xiangning; Cao, Xin; Bortnik, Jacob; Li, Wen; Shen, Xiaochen; Ma, Qianli; Ma, Donglai; Malaspina, David; Huang, Sheng

Lunch Break

Room: CON-104

D3.7-0011-24 15:00 - 15:30 (solicited)

Data-driven prediction of geomagnetic indices as credible physical scenarios
Bernoux, Guillerme; Nguyen, Gautier; Maget, Vincent

D3.7-0012-24 15:30 - 15:45

Automatic Detection of Pc5 Geomagnetic Pulsations Observed at Geostationary Orbits During Solar Cycle 23 using Machine Learning Technique Combined with Wavelet Analysis
Pappoe, Justice Allotey; Yoshikawa, Akimasa; Kandil, Ali; Mahrous, Ayman

D3.7-0013-24 15:45 - 16:00

Information-theoretic measures of electron acceleration in the outer radiation belt
Papadimitriou, Constantinos; Daglis, Ioannis A.; Balasis, Georgios; Wing, Simon

D3.7-0014-24 16:00 - 16:15

Development of a forecast model of the outer radiation belt electrons using the XAI
Nishimiya, Yuta; Miyoshi, Yoshizumi; Hori, Tomoaki; Jun, Chae-Woo; Mitani, Takefumi; Shinohara, Iku; Takashima, Takeshi; Asamura, Kazushi; Higashio, Nana; Saito, Shinji; Shiota, Daikou

D3.7-0015-24 16:15 - 16:30

Plasma frequency specification from space-based wave receivers: Self-supervised learning
Su, Yi-Jiun; Carilli, John

Coffee Break

Room: CON-104

D3.7-0016-24 17:00 - 17:20

A neural-network based ionosphere model for GNSS receiver bias estimation
Hoque, M. Mainul; Adolfs, Marjolijn; R Salamanca, Luisa F

D3.7-0017-24 17:20 - 17:50 (solicited)

Combined modelling of the topside ionosphere and plasmasphere using neural networks
Smirnov, Artem

D3.7-0018-24 (WITHDRAWN) 17:50 - 18:05

Detection and Characterization of Ionospheric Plasma Structures from All-sky Airglow Images Using Deep Learning Framework
Chakrabarti, Satarupa; Rathi, Rahul; Patgiri, Dipjyoti; Sunil Krishna, M.V.; Sarkhel, Sumanta

D3.7-0019-24 18:05 - 18:20

Utilization of Machine Learning to Minimize Selection Bias in the Characterization of Thin DebriSat Fragments
Ondes, Bogachan; Fitz-Coy, Norman

Fri, Jul 19, 2024

E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

Latest results from Pierre Auger Observatory and TUS experiment

Chair: Parizot, Etienne
Room: CON-205

E1.1-0061-24 09:00 - 09:20 (solicited)

Pierre Auger Observatory Highlights
Bohacova, Martina Team: Pierre Auger Collaboration p. 456

E1.1-0062-24 09:20 - 09:40

Multimessenger astronomy with the Pierre Auger Observatory
Niechciol, Marcus

E1.1-0063-24 09:40 - 09:55

Overview of the AugerPrime science case and current status
Caruso, Rossella Team: Pierre Auger Collaboration p. 456

E1.1-0064-24 09:55 - 10:10

Arrival direction studies of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory
Schulte, Josina Team: Pierre Auger Collaboration p. 456

E1.1-0065-24 (WITHDRAWN) 10:10 - 10:30

Anomalous events in the TUS experiment
Sholtan, Yeldos; Karatash, Khussein Team: TUS p. 460

Coffee Break

Latest results from Telescope Array and mini-EUSO instrument

Chair: Marrocchesi, Pier Simone
Room: CON-205

E1.1-0066-24 11:00 - 11:20 (solicited)

Overview of Cosmic Ray measurements with Telescope Array and TALE
Fujita, Keitaro

E1.1-0067-24 11:20 - 11:40 (solicited)

The Mini-EUSO telescope on board the ISS: an overview of the results
Marcelli, Laura Team: JEM-EUSO Collaboration p. 453

E1.1-0068-24 11:40 - 12:00 (solicited)

Search for Strange Quark matter and Massive Dark Matter from space with the Mini-EUSO experiment
Casolino, Marco Team: JEM-EUSO p. 453

E1.1-0069-24 12:00 - 12:20

Implications of Mini-EUSO measurements for a space-based observation of UHECRs
Battisti, Matteo; Bertaina, Mario Edoardo; Bianciotto, Marta; Fenu, Francesco Team: JEM-EUSO Collaboration p. 453

Lunch Break

Precursors of the future UHE cosmic ray space missions

Chair: Casolino, Marco
Room: CON-205

E1.1-0070-24 15:00 - 15:20 (solicited)

The JEM-EUSO perspective and the future of UHECR studies from space
Parizot, Etienne; Casolino, Marco Team: JEM-EUSO Collaboration p. 453

E1.1-0071-24 15:20 - 15:40 (solicited)

POEMMA and the road to a multi messenger space observatory
Eser, Johannes; Parizot, Etienne; Olinto, Angela V; Krizmanic, John Team: POEMMA and JEM-EUSO collaborations p. 456

E1.1-0072-24 15:40 - 16:00

EUSO-SPB2: First Results of a Multi Messenger Balloon Payload
Eser, Johannes; Olinto, Angela V; Parizot, Etienne; Wiencke, Lawrence Team: JEM-EUSO collaboration p. 453

E1.1-0073-24 16:00 - 16:20

The NUSES space mission
Bertaina, Mario Edoardo Team: NUSES Collaboration p. 455

Coffee Break

I. Future instrumentation: low-energy cosmic rays

Chair: Walsh, Nathan
Room: CON-205

E1.1-0074-24 17:00 - 17:20 (solicited)

Isotopic composition of cosmic rays with the HELIX balloon project
Mcbride, Keith Team: HELIX p. 451

E1.1-0075-24 17:20 - 17:40 (solicited)

The Trans-Iron Galactic Element Recorder for the International Space Station
Rauch, Brian; Zober, Wolfgang Team: TIGERISS Collaboration p. 460

E1.1-0076-24 17:40 - 17:55

The Science of the TIGERISS Mission
Zober, Wolfgang; Rauch, Brian Team: TIGERISS Collaboration p. 460

E1.1-0077-24 17:55 - 18:15 (solicited)

The GAPS Project: Antarctic balloon flight for antinuclei-based indirect dark matter searches
Aramaki, Tsuguo

Fri, Jul 19, 2024

E1.5 Illuminating Gravitational Waves and their Environments

Main Scientific Organizer: Troja, Eleonora
Deputy Organizer: Im, Myungshin

NS mergers and their environments

Chair: Im, Myungshin
Room: CON-108

E1.5-0006-24 09:00 - 09:30 (solicited)

NS mergers and their environment: What Chris Belczynski's work taught us
Fryer, Chris; Belczynski, Krzysztof

E1.5-0007-24 09:30 - 09:45 (solicited)

A search for hostless short GRBs with large aperture telescopes
O'connor, Brendan; Troja, Eleonora; Dichiara, Simone; Kouveliotou, Chryssa

E1.5-0008-24 09:45 - 10:00

Deciphering the unusual stellar progenitor of GRB 210704A
Becerra Godinez, Rosa Leticia; Troja, Eleonora; Watson, Alan M.; O'Connor, Brendan; Veres, Peter; Sakamoto, Takanori; Dichiara, Simone

E1.5-0009-24 10:00 - 10:15

Deep search of electromagnetic counterparts with Swift-BAT/GUANO during the third LIGO-Virgo-KAGRA observing run
Ronchini, Samuele

E1.5-0010-24 10:15 - 10:30

The Search of GW optical counterparts with the Zwicky Transient Facility
Ahumada, Tomas

Coffee Break

Multimessenger constraints to the NS equation of state

Chair: Becerra Godinez, Rosa Leticia
Room: CON-108

E1.5-0011-24 11:00 - 11:30 (solicited)

Constraining the nuclear symmetry energy inferred from Neutron Star observations in Multimessenger Astronomy
Kim, Young-Min

E1.5-0012-24 11:30 - 11:45

Plausible presence of new state in neutron stars with masses above 0.98 M_TOV and the bulk properties of the most massive non-rotating neutron star
Fan, Yi-Zhong

E1.5-0013-24 11:45 - 12:00

Precursors from compact binary mergers
Dichiara, Simone

E1.5-0014-24 12:00 - 12:15

Probing Gravitational Wave Merger Physics Through Radio Observations: Insights from ASKAP
Gulati, Ashna; Murphy, Tara; Dobie, Dougal; Deller, Adam; Kaplan, David; Lenc, Emil

E1.5-0015-24 12:15 - 12:30

Searching for late-time radio flares of short duration gamma-ray bursts
Ricci, Roberto

Lunch Break

Kilonova and their Physics

Chair: Fryer, Chris
Room: CON-108

E1.5-0016-24 15:00 - 15:30 (solicited)

Decoding light curves and spectra of kilonovae
Tanaka, Masaomi

E1.5-0017-24 15:30 - 15:45 (solicited)

New Understandings of Gamma-ray Bursts Origins & Mechanisms
Zhang, Binbin

E1.5-0018-24 15:45 - 16:00 (solicited)

Nuclear Physics Studies with Kilonovae
Holmbeck, Erika

E1.5-0019-24 16:00 - 16:15
A lanthanide-rich kilonova in the aftermath of a long gamma-ray burst
Yang, Yuhan

E1.5-0020-24 16:15 - 16:30
Heavy Elements Features in Kilonova Infrared Spectra
Rahmouni, Salma; Tanaka, Masaomi; Domoto, Nanae

Coffee Break

Cosmology with multi-messenger observations
Chair: O'connor, Brendan
Room: CON-108

E1.5-0021-24 (WITHDRAWN) 17:00 - 17:30 (solicited)
Cosmology with supernovae and gravitational waves
Davis, Tamara

E1.5-0022-24 17:30 - 17:45 (solicited)
Cosmology with multi-messenger observations
Palmese, Antonella

E1.5-0023-24 17:45 - 18:00 (solicited)
Reducing the Uncertainty on the Hubble Constant up to 35% with an Improved Statistical Analysis: Different Best-fit Likelihoods for Type Ia Supernovae, Baryon Acoustic Oscillations, Quasars, and Gamma-Ray Bursts
Dainotti, Maria Giovanna; Bargiacchi, Giada; Capozziello, Salvatore; Nagataki, Shigehiro; Zhang, Bing; Iwasaki, Kazunari

E1.5-0024-24 18:00 - 18:15
Exploring the Impact of Ejecta Velocity Profile on Kilonova Evolution: Diversity of the Kilonova Lightcurves
Uhm, Z. Lucas; Tak, Donggeun

E1.5-0025-24 18:15 - 18:30
Impact of Ejecta Temperature and Mass on the Strength of Heavy Element Signature in Kilonova
Tak, Donggeun; Uhm, Z. Lucas

Fri, Jul 19, 2024

E1.7 Black Hole Astrophysics: Theory and Simulations Confront Observations

Main Scientific Organizer: Chakrabarti, Sandip Kumar
Deputy Organizer: Laurent, Philippe

Disks and Jets -I

Chair: Laurent, Philippe
Room: CON-107

E1.7-0017-24 09:00 - 09:30 (solicited)
Further Hell Outflows in the 2019 and 2021 Outbursts of the Dipping BH X-ray Transient Swift J1357.2-0933 - Velocity shifts during the dips (Solicited)
Charles, Philip; Matthews, James; Brink, Jaco; Buckley, David; Gandhi, Poshak; Paice, John

E1.7-0018-24 09:30 - 09:50
Study of the star-gulping mechanism and of the sphere of influence of the BHs using N-body simulations
Caramete, Laurentiu Ioan; Paun, Alice; Caramete, Ana; Balasov, Razvan

E1.7-0019-24 09:50 - 10:10
Disc-Jet coupling in black hole X-ray binaries: Wide-band spectro-temporal results
das Choudhury, Sreetama; G. R., Bhuvana; das, Santabrata; Nandi, Anuj

E1.7-0020-24 10:10 - 10:30
Computation of mass outflow rate from magnetized advective accretion flow around rotating black holes
Jana, Camelia; das, Santabrata

Coffee Break

Disks and Jets -II
Chair: Laurent, Philippe
Room: CON-107

E1.7-0021-24 11:00 - 11:30 (solicited)
Outflows from black-hole X-ray binaries and the radio - X-ray correlation
Kylafis, Nikolaos

E1.7-0022-24 11:30 - 11:50
Effect of plasma composition on the dynamics of astrophysical jets
Joshi, Raj Kishor

E1.7-0023-24 11:50 - 12:10
High energy processes in accretion ejection systems around black holes
Chattopadhyay, Indranil

E1.7-0024-24 12:10 - 12:30
Non-axisymmetric accretion disk instabilities: new possibilities beyond the MRI
Brughmans, Nicolas; Keppens, Rony; Goedbloed, Hans (j.p.)

Lunch Break

Stellar Mass Black Holes
Chair: Kylafis, Nikolaos
Room: CON-107

E1.7-0025-24 15:00 - 15:30 (solicited)
What are the spins of stellar-mass black holes?
Zdziarski, Andrzej

E1.7-0026-24 (WITHDRAWN) 15:30 - 15:50
Study of 2023 Outburst of Swift J1727.8-1613: Connecting Temporal and Spectral properties
Nath, Sujoy Kumar; Debnath, Dipak; Chatterjee, Debjit; Chatterjee, Kaushik; Chang, Hsiang-Kuang

E1.7-0027-24 15:50 - 16:10
Exploring the accretion scenario of BH-ULXs with XMM-Newton
Majumder, Seshadri; das, Santabrata; Nandi, Anuj

E1.7-0028-24 (WITHDRAWN) 16:10 - 16:30
On the Spectral Evolution of the Dipping Black Hole X-ray Binary MAXI J1803-298
Adegoke, Oluwashina; Garcia, Javier; Connors, Riley; Mastrosserio, Guglielmo

Coffee Break

Outbursting systems and their studies
Chair: Kylafis, Nikolaos
Room: CON-107

E1.7-0029-24 17:00 - 17:30 (solicited)
Witnessing the onset of a black hole outburst
Russell, David; Alabarta, Kevin; Homan, Jeroen

E1.7-0030-24 17:30 - 18:00
TCAF model : A Tool for Understanding Accretion Flow Dynamics and Estimation of Intrinsic Parameters of BHXRBs
Debnath, Dipak

E1.7-0031-24 18:00 - 18:30
Constraining black hole mass and the size-luminosity relation based on the six-year SNU AGN Monitoring Project
Woo, Jong-Hak; Wang, Shu Team: SAMP Collaboration p. 457

Fri, Jul 19, 2024

E1.10 Extreme Accretion Events in Supermassive Black Holes

Main Scientific Organizer: Ricci, Claudio
Deputy Organizer: Trakhtenbrot, Benny

Chair: Ricci, Claudio
Room: CON-105

E1.10-0001-24 09:00 - 09:30 (solicited)
Simulations Super Eddington Accretion in AGN disks and TDEs
Davis, Shane

E1.10-0002-24 09:30 - 10:00 (solicited)
Tidal Disruption Events: From Accretion and Outflow to Emission
Dai, Jane

E1.10-0003-24 10:00 - 10:15
Detection of a Variable Multi-Phase Outflow in a Tidal Disruption Event
Kosec, Peter

E1.10-0004-24 10:15 - 10:30
Delayed X-ray brightening accompanied by variable ionized absorption following a tidal disruption event
Wevers, Thomas; Guolo, Muryel; Pasham, Dheeraj

Coffee Break

Chair: Trakhtenbrot, Benny
Room: CON-105

E1.10-0005-24 11:00 - 11:15
Tidal Disruption Events: Supermassive Black Holes Living the Life of Stellar Mass Black Holes
Chatterjee, Arka; Hayasaki, Kimitake; Nandi, Prantik; Kumari, Neeraj; Jana, Arghajit; Safi-Harb, Samar; Naik, Sachindra

E1.10-0006-24 11:15 - 11:30
Debris stream dynamics and radiation in tidal disruption events
Shen, Rong-Feng

E1.10-0007-24 11:30 - 12:00 (solicited)
The Formation and Growth of Massive Black Holes
Haiman, Zoltan

E1.10-0008-24 12:00 - 12:30 (solicited)
Super-Eddington Active Galactic Nuclei
Jin, Chichuan; Done, Chris; Ward, Martin; Panessa, Francesca

Lunch Break

Chair: Panagiotou, Christos
Room: CON-105

E1.10-0009-24 15:00 - 15:15
X-ray Reflection from Super-Eddington Accretion Flows
Zhang, Zijian; Dai, Jane; Reynolds, Christopher; Garcia, Javier; Kara, Erin

E1.10-0010-24 15:15 - 15:30
Super-Eddington Accretion in the Local Universe
Kallová, Kristína; Ricci, Claudio

E1.10-0011-24 15:30 - 16:00 (solicited)
X-ray quasi-periodic eruptions: what's new
Giustini, Margherita

E1.10-0012-24 16:00 - 16:15
Exploring Changing-look AGNs with SDSS-V
Zeltyn, Grisha

E1.10-0013-24 16:15 - 16:30
Extragalactic mid-IR nuclear transients
Panagiotou, Christos; Masterson, Megan; de, Kishalay; Kara, Erin

Coffee Break

Chair: Giustini, Margherita
Room: CON-105

E1.10-0014-24 17:00 - 17:15
Investigating the Relation between the X-ray Corona, Soft Excess, and Changing-State Transitions with Multiwavelength Observations
Jana, Arghajit; Ricci, Claudio; Temple, Matthew; Shablovinskaia, Elena; Dimopoulos, Giorgos; Tortosa, Alessia

E1.10-0015-24 17:15 - 17:30
Unveiling AGN Accretion Changes over 104-5 Year Timescales through Extended Emission Line Regions"**
Finlez, Carolina

E1.10-0016-24 17:30 - 17:45
An X-ray view of the ambiguous nuclear transient AT2019pev
Yu, Zhefu; Kochanek, Christopher; Mathur, Smita; Auchettl, Katie; Grupe, Dirk

E1.10-0017-24 17:45 - 18:00
A Bowen Fluorescence flare in a pre-existing AGN host and other SMBH related transients with Bowen emission.
Makrygianni, Lydia

Fri, Jul 19, 2024

E1.13 Observations and Prospects for X-ray Polarimetry

Main Scientific Organizer: Marshall, Herman
Deputy Organizer: Baumgartner, Wayne

Neutron Star Binaries

Chair: Gnarini, Andrea
Room: CON-109

E1.13-0019-24 09:00 - 09:15
Discovery of a strong rotation of the X-ray polarization angle in the galactic burster GX 13+1
Bobrikova, Anna; Forsblom, Sofia; la Monaca, Fabio; Di Marco, Alessandro; Poutanen, Juri

E1.13-0020-24 09:15 - 09:30
Unbinned Maximum Likelihood Estimation of Polarization Angle Rotation in GX 13+1
Ravi, Swati; Ng, Wei (mason); Marshall, Herman

E1.13-0021-24 09:30 - 09:45
Understanding Polarization Angle Variations in Neutron Stars
Ng, Wei (mason); Marshall, Herman; Ravi, Swati

E1.13-0022-24 09:45 - 10:00
Spectral analysis of coronal properties in weakly magnetized Neutron Stars in Low Mass X-ray Binaries
Mikusincova, Romana; Ursini, Francesco; Gnarini, Andrea; Matt, Giorgio

E1.13-0023-24 10:00 - 10:15
Polarized X-ray reflection from a star
Ahlberg, Varpu; Poutanen, Juri; Kravtsov, Vadim

Coffee Break

Black Hole Binaries 1

Chair: Papadakis, Iossif
Room: CON-109

E1.13-0024-24 11:00 - 11:30 (solicited)
X-ray polarimetry of black hole X-ray binaries
Ingram, Adam; Ewing, Melissa

E1.13-0025-24 11:30 - 11:45
Hard X-ray spectral state dependence of polarisation in Cygnus X-1 using AstroSat
Kumar, Abhay; Bhargava, Yash; Vadawale, Santosh; Chattopadhyay, Tanmoy Team: CZTI team p. 450

E1.13-0026-24 11:45 - 12:00
Polarimetric Findings for the Black Hole X-ray Binary 4U 1630–47 using Imaging X-ray Polarimetry Explorer
Rawat, Divya; Garg, Akash; Mendez, Mariano

E1.13-0027-24 12:00 - 12:15
X-ray polarization properties produced by thermal-radiative accretion disk winds in binary systems
Tomaru, Ryota; Done, Chris; Odaka, Hirokazu

E1.13-0028-24 12:15 - 12:30
Spectrum and Polarimetric Analysis on the Disk and Corona Geometry of Cyg X-1 Based on IXPE
Zhang, Sixuan; Mizuno, Tsunefumi; Fukazawa, Yasushi; Takahashi, Hiromitsu

Lunch Break

Black Hole Binaries 2

Chair: Ingram, Adam
Room: CON-109

E1.13-0029-24 15:00 - 15:15
Gaining Insight into the Origin of Quasi-Periodic Oscillations through Polarization Analysis of Swift J1727.8-1613
Zhao, Qingchang

E1.13-0030-24 15:15 - 15:30
Soft Spectro-polarimetry of X-ray Binaries LMC X-3 and Her X-1: IXPE Insights and Future Prospects with XpoSat
Garg, Akash; Rawat, Divya; Bhargava, Yash; Mendez, Mariano; Bhattacharyya, Sudip

E1.13-0031-24 15:30 - 15:45
Outflows from black-hole X-ray binaries can explain the observed X-ray polarization
Kylafis, Nikolaos

E1.13-0032-24 15:45 - 16:00
Modeling X-ray polarization of microquasars by coupling physical modeling and GR radiative transfer
Zhang, Wenda

E1.13-0033-24 16:00 - 16:15
Making the invisible visible
Barnier, Samuel; Done, Chris

Coffee Break

Radio Quiet AGN

Chair: Chen, Chien-Ting
Room: CON-109

E1.13-0034-24 17:00 - 17:30 (solicited)
IXPE observations of NGC4151: Implications for the X-ray geometry in AGN
Papadakis, Iossif; Dovciak, Michal

E1.13-0035-24 17:30 - 17:50
Exploring AGN coronae through X-ray polarimetry: insights from IXPE observations
Tagliacozzo, Daniele; Matt, Giorgio; Ursini, Francesco; Marinucci, Andrea; Bianchi, Stefano; Ingram, Adam; Kim, Dawoon E.; Marin, Frédéric; Gianolli, Vittoria Elvezia

E1.13-0036-24 17:50 - 18:10
Polarised X-ray Reflection: Creating polarised XILLVER tables
Nathan, Edward; Garcia, Javier; Sokolova-Lapa, Ekaterina; Hu, Kun; Krawczynski, Henric

E1.13-0037-24 18:10 - 18:25
Event-Based Analysis of X-ray Polarimetry Data
Marshall, Herman

Fri, Jul 19, 2024

E1.15 To Flow in or to Flow out, That is the Question of Black-hole X-ray Binaries

Main Scientific Organizer: Kylafis, Nikolaos
Deputy Organizer: Zdziarski, Andrzej

Room: CON-202

E1.15-0001-24 09:00 - 09:30 (solicited)
Exploring Tomaso Belloni's scientific legacy: 30 years of friendship, work, and his last contribution on GRS 1915+105
Mendez, Mariano

E1.15-0002-24 09:30 - 10:00 (solicited)
Simulations of inflows and outflows in black hole accretion systems
Tchekhovskoy, Alexander; Liska, Matthew; Kaaz, Nicholas; Lalakos, Aretaios

E1.15-0003-24 10:00 - 10:30 (solicited)
Theoretical understanding of outflow from black hole accretion at various accretion rates
Yuan, Feng

Coffee Break

Room: CON-202

E1.15-0004-24 11:00 - 11:30 (solicited)
A unified accretion ejection paradigm for X-ray binaries : the JED-SAD paradigm
Marcel, Gregoire

E1.15-0005-24 11:30 - 12:00 (solicited)
Transformation of accretion flows towards the black hole
Liu, Bifang

E1.15-0006-24 12:00 - 12:15
The role of outflows in black-hole X-ray binaries
Kylafis, Nikolaos

E1.15-0007-24 12:15 - 12:30
Studies on the soft intermediate state X-ray flare of MAXI J1535–571 during its 2017 outburst
Ma, Ruican; Tao, Lian

Lunch Break

Room: CON-202

E1.15-0008-24 15:00 - 15:30 (solicited)
Multi-wavelength spectral-timing experiments: from the 2000s to the 2020s and beyond
Tetarenko, Alexandra

E1.15-0009-24 15:30 - 16:00 (solicited)
Black hole disks and coronae: the X-ray spectral-timing view
Uttley, Phil

E1.15-0010-24 16:00 - 16:15
Timing Analysis of the black hole Transient MAXI J1820+070 observed with Insight-HXMT and NICER
Ma, Xiang

E1.15-0011-24 (WITHDRAWN) 16:15 - 16:30
Time-lag properties at HFQPO of GRS 1915+105 during soft state: A multi-mission approach
Majumder, Prajjwal; Dutta, Broja G.; Nandi, Anuj

Coffee Break

Room: CON-202

E1.15-0012-24 17:00 - 17:30 (solicited)
Large-scale jets from black hole X-ray binaries
Carotenuto, Francesco

E1.15-0013-24 17:30 - 17:50
Discovery of large-scale relativistic jets from a black hole candidate in a Galactic globular cluster
Corbel, Stephane

E1.15-0014-24 17:50 - 18:10 (solicited)
Evidence for jet precession at the orbital period in the X-ray binary Cyg X-3
Dmytriiev, Anton; Zdziarski, Andrzej; Malyshev, Denys; Chernyakova, Maria

E1.15-0015-24 18:10 - 18:30
Events leading up to the ejection of the corona in black hole X-ray binaries: how are relativistic jets launched?
Russell, David

Fri, Jul 19, 2024

E1.18 Plasma at the Inner Dozen of Gravitational Radii: from Dissipation to Radiation in Accreting Black Hole Systems

Main Scientific Organizer: Veledina, Alexandra
Deputy Organizer: Nättilä, Joonas

Room: CON-201

E1.18-0001-24 09:00 - 09:20 (solicited)
Global collisionless plasma simulation for black hole magnetospheres and accretion
Parfrey, Kyle

E1.18-0002-24 09:20 - 09:50 (solicited)
Plasma heating and X-ray emission in black hole coronae
Beloborodov, Andrei

E1.18-0003-24 09:50 - 10:05
Relativistic reconnection with effective resistivity: a comparison between RMHD and PIC models
Bugli, Matteo; Lo Presti, Edoardo; Mignone, Andrea; Figueiredo, Enzo; Cerutti, Benoit; Del Zanna, Luca; Mattia, Giancarlo; Bodo, Gianluigi

E1.18-0004-24 10:05 - 10:20
First-principles radiative plasma simulations of hot accretion flows
Nättilä, Joonas

Coffee Break

Room: CON-201

E1.18-0005-24 (WITHDRAWN) 11:00 - 11:15
What can we say about aperiodic variability from simulations?
Bollimpalli, Deepika

E1.18-0006-24 11:15 - 11:35 (solicited)
Relativistic turbulence and non-thermal radiation in AGN jets
Sobacchi, Emanuele

E1.18-0007-24 11:35 - 11:55 (solicited)
On the angular anisotropy of radiating particles in relativistic jets
Beskin, Vasily; Khalilov, Timur; Pariev, Vladimir

E1.18-0008-24 11:55 - 12:10
2 Fast 2 Curious: A Spectro-Polarimetric View into Acccretion Plasma Physics
Loktev, Vladislav; Poutanen, Juri; Veledina, Alexandra; Nättilä, Joonas; Suleimanov, Valery

E1.18-0009-24 12:10 - 12:30
Discussion: advanced simulations
Veledina, Alexandra

Lunch Break

Room: CON-201

E1.18-0010-24 15:00 - 15:30 (solicited)
Multi-wavelength Monitoring of Variable Plasmas at the Event Horizon
Haggard, Daryl

E1.18-0011-24 15:30 - 15:50 (solicited)
Diagnosing horizon-scale plasma energetics and dissipation with the recent observations of Sagittarius A* and M87*
Wielgus, Maciek; Moscibrodzka, Monika; Yfantis, Aristomenis

E1.18-0012-24 15:50 - 16:10 (solicited)
Accretion flows in microquasars
Zdziarski, Andrzej

E1.18-0013-24 16:10 - 16:25
The effect of outflows on the structure of accretion flows in black-hole X-ray binaries
Kylafis, Nikolaos

Coffee Break

Room: CON-201

E1.18-0014-24 17:00 - 17:30 (solicited)
Review of IXPE observations of black hole X-ray binaries
Ingram, Adam

E1.18-0015-24 17:30 - 17:45
Polarization from accretion disk winds
Nitindala, Anagha; Veledina, Alexandra; Poutanen, Juri

E1.18-0016-24 17:45 - 18:00
How do recent multiwavelength polarimetric results challenge theoretical models and numerical simulations of accreting black holes?
Kravtsov, Vadim; Veledina, Alexandra; Berdyugin, Andrei; Poutanen, Juri

E1.18-0017-24 18:00 - 18:20
Discussion: new observations
de Marco, Barbara

Fri, Jul 19, 2024

E1.19 Cataclysmic Variables and Related Systems as Probes of Accretion, Binary Evolution and Thermo-nuclear Explosions

Main Scientific Organizer: Balman, Solen
Deputy Organizer: Jose, Jordi

Novae, thermonuclear runaways and their consequences

Chair: Woudt, Patrick
Room: CON-203

E1.19-0029-24 09:00 - 09:30 (solicited)
Extra-Galactic Nova Rates
Shara, Michael

E1.19-0030-24 09:30 - 10:00 (solicited)
The Interplay Between 1D and 2D/3D Modeling of Classical Nova Explosions
Jose, Jordi

E1.19-0031-24 10:00 - 10:30 (solicited)
Spectral and temporal evolution of three novae in the X-rays during their outburst stages
Page, Kim

Coffee Break

X-ray and Gamma-ray emission in novae I

Chair: Shara, Michael
Room: CON-203

E1.19-0032-24 11:00 - 11:30 (solicited)
High-resolution X-ray spectroscopy of Nova Outbursts: Plus Ça Change...
Drake, Jeremy

E1.19-0033-24 11:30 - 12:00 (solicited)
The population of Gamma-ray emitting novae
Cheung, C. C. Teddy; Jean, Pierre; Johnson, Tyrel Team: on behalf of the Fermi-LAT collaboration p. 455

E1.19-0034-24 12:00 - 12:30

Discussion Panel II : Understanding Novae: the present and the future
Drake, Jeremy; Orio, Marina; Jose, Jordi; Shara, Michael; Page, Kim; Balman, Solen

Lunch Break

X-ray and Gamma-ray emission in novae II

Chair: Page, Kim
Room: CON-203

E1.19-0035-24 15:00 - 15:30 (solicited)

Using Gamma-Rays to Reveal the Evolution of Novae
Diesing, Rebecca

E1.19-0036-24 15:30 - 15:50

X-ray monitoring of two quiescent novae, V603 Aql and V174 Her
Orio, Marina; Luna, Gerardo Juan Manuel; Dobrotka, Andrej; Ness, Jan-Uwe; Melichercik, Martin

E1.19-0037-24 15:50 - 16:10 (solicited)

The Spectacular High Resolution X-Ray Spectra of Nova YZ Ret 2020
Orio, Marina; Mitrani, Sharon; Behar, Ehud

E1.19-0038-24 16:10 - 16:25

Fast and Furious: Nova Her 2021 caught by AstroSat from UV to X-rays
Bhargava, Yash; Dewangan, Gulab; Anupama, G C; Kamath, Umanath; L.s, Sonith; Singh, Kulinder Pal; Drake, Jeremy; Beardmore, Andy; Luna, Gerardo Juan Manuel; Orio, Marina; Page, Kim; Shaw, Gargi; Bhattacharyya, Sudip

Fri, Jul 19, 2024

E2.2 Energy and mass transport of small scales in the low solar atmosphere

Main Scientific Organizer: Lim, Eun-Kyung
Deputy Organizer: De Pontieu, Bart

Sunspots and Oscillations

Chair: Chae, Jongchul
Room: CON-106

E2.2-0021-24 11:00 - 11:15

Death of sunspots
Schmieder, Brigitte; Zheng, Chenxi; Roudier, Thierry; Ruan, Guiping; Cao, Wenda; Chen, Yao

E2.2-0022-24 11:15 - 11:30

Spectral features of the solar transition region and chromospheric lines at flare ribbons observed with IRIS
Wang, Lingfang; Li, Ying; Ding, Mingde; Cheng, Xin; Li, Qiao

E2.2-0023-24 11:30 - 11:45

Particle transport effects derived in five solar flares with sunquakes
Zharkova, Valentina; Zharkov, Sergei

E2.2-0024-24 11:45 - 12:00

The role of turbulence in the low solar atmosphere before the flare onset.
Sainz Dalda, A.

E2.2-0025-24 12:00 - 12:15 (solicited)

Dark Halos around Active Regions in the Solar Atmosphere
Lezzi, Serena Maria; Andretta, Vincenzo; Murabito, Mariarita; Del Zanna, Giulio; Baker, Deborah; Long, David; Parenti, Susanna; Valori, Gherardo; Dolliou, Antoine

E2.2-0026-24 (WITHDRAWN) 12:15 - 12:30

How Do Spatial Resolution and Cadence Affect the Accuracy of Electric Field and Poynting Flux Inversions?
Tilipman, Dennis; Kazachenko, Maria; Rempel, Matthias

Coffee Break

Sunspots and Oscillations

Chair: Lim, Eun-Kyung
Room: CON-106

E2.2-0027-24 15:00 - 15:20 (solicited)

Supersonic downflows into sunspots
Tian, Hui

E2.2-0028-24 15:20 - 15:40 (solicited)

Synthetic spectropolarimetry of umbral chromospheric oscillations
Felipe, Tobias

E2.2-0029-24 15:40 - 16:00 (solicited)

Umbral Flashes in the Solar Chromosphere and Transition Region
Cho, Kyuhyoun

E2.2-0030-24 16:00 - 16:15

Spectroscopic detection of transverse waves in quiet-Sun fibrils
Kwak, Hannah; Chae, Jongchul; Lim, Eun-Kyung; Lee, Kyoung-Sun; Song, Donguk; Yang, Heesu

E2.2-0031-24 16:15 - 16:30

High-Speed Dynamics in the Chromosphere of a Very Typical Quiet Solar Region Revealed by the MiHI Integrated Field Spectral Observations
Chae, Jongchul; Van Noort, Michiel; Madjarska-Theissen, Maria

Lunch Break

Novel Missions for Solar Physics

Chair: Lim, Eun-Kyung
Room: CON-106

E2.2-0032-24 17:00 - 17:20 (solicited)

SUNRISE III balloon-borne solar telescope for UV-Vis-NIR spectropolarimetry
Katsukawa, Yukio; Solanki, Sami; Korpi-Lagg, Andreas; Bernasconi, Pietro; Del Toro Iniesta, Jose Carlos; Berkefeld, Thomas; Kubo, Masahito; Kawabata, Yusuke; Oba, Takayoshi; Matsumoto, Takuma; Ishikawa, Ryohtaro; Hara, Hirohisa; Shimizu, Toshifumi; Quintero Noda, Carlos; Orozco Suárez, David; Balaguer Jimenez, Maria; Gandorfer, Achim; Feller, Alex

E2.2-0033-24 17:20 - 17:40 (solicited)

Revealing 3D magnetic field structures of an active region plage with CLASP2.1 and Hinode
Ishikawa, Ryohko; McKenzie, David; Trujillo Bueno, Javier; Auchère, Frédéric; Song, Donguk; Okamoto, Joten; Kano, Ryouhei; Kobayashi, Ken; Kobelski, Adam; Vigil, Genevieve; Winebarger, Amy; Rachmeler, Laurel; Bethge, Christian; Ballester, Ernest Alsina; Del Pino Alemán, Tanausú; Li, Hao; De Pontieu, Bart; Belluzzi, Luca; Sakao, Taro; Stepan, Jiri

E2.2-0034-24 17:40 - 17:55

Energetics and dynamics of solar activities in the low atmosphere detected by the CHASE mission
Li, Chuan; Ding, Mingde; Fang, Cheng; Li, Zhen

E2.2-0035-24 17:55 - 18:25 (solicited)

First results from DKIST
Fischer, Catherine Team: DKIST: p. 450

Fri, Jul 19, 2024

E2.6 Developments and Applications of the Solar Magnetic Field Modelling

Main Scientific Organizer: Zhu, Xiaoshuai
Deputy Organizer: Zhao, Jie

Magnetic field modeling: New developments

Chair: Zhu, Xiaoshuai
Room: CON-110

E2.6-0001-24 11:00 - 11:30 (solicited)

Magnetic Flux Rope Models and Data-Driven Magnetohydrodynamic Simulations of Solar Eruptions
Guo, Yang; Guo, Jinhan; Ni, Yiwei; Xia, Chun; Zhong, Ze; Ding, Mingde; Chen, P. F.; Keppens, Rony

E2.6-0002-24 11:30 - 11:50 (solicited)

Theory and Application of Solar Magnetic Field Modelling
Cheung, Mark

E2.6-0003-24 11:50 - 12:10 (solicited)

MURaM Radiative Magnetohydrodynamics simulations of solar active regions
Chen, Feng

E2.6-0004-24 12:10 - 12:25

Finite Plasma Beta Three-dimensional Magnetic Field Extrapolation Based on MHD Relaxation Method
Yamasaki, Daiki; Miyoshi, Takahiro; Inoue, Satoshi

Coffee Break

Magnetic field modeling: New data and developments

Chair: Guo, Yang
Room: CON-110

E2.6-0005-24 15:00 - 15:30 (solicited)

SO/PHI: A novel prospective to boundary conditions for coronal models
Valori, Gherardo; Calchetti, Daniele; Strecker, Hanna; Hirzberger, Johann; Orozco Suárez, David; Blanco Rodriguez, Julian; Gandorfer, Achim; Staub, Jan; Del Toro Iniesta, Jose Carlos; Solanki, Sami; Woch, Joachim

E2.6-0006-24 15:30 - 15:50 (solicited)

Modeling Solar Magnetic Field in the Solar Corona from the view of magnetic helicity
Yang, Shangbin; Büchner, Jörg; Georgoulis, Manolis K.; Zhang, Mei; Zhang, Hongqi

E2.6-0007-24 15:50 - 16:05

Solar magneto-hydro-static modeling using MHD relaxation method: Testing with analytical solution
Zhu, Xiaoshuai

E2.6-0008-24 16:05 - 16:20

Near Real-Time Extrapolation of Nonlinear Force-Free Fields from Photospheric Vector Magnetograms Using Physics-Informed Neural Operators
Jeon, Mingyu; Jeong, Hyun-Jin; Moon, Yong-jae; Kusano, Kanya

Lunch Break

Magnetic field modeling: Applications

Chair: Chen, Feng
Room: CON-110

E2.6-0009-24 17:00 - 17:30 (solicited)

Solar magnetic field modeling for the prediction of solar flares and coronal mass ejections
Kusano, Kanya

E2.6-0010-24 17:30 - 17:50

Prediction of Coronal Structure for the 2024 Total Solar Eclipse: A Data-Driven Model
Linker, Jon; Downs, Cooper; Caplan, Ronald; Mason, Emily; Ben-Nun, Michal; Davidson, Ryder; Lionello, Roberto; Palmerio, Erika; Reyes, Andres; Riley, Pete; Torok, Tibor; Titov, Viacheslav; Turtle, James Team: Solar Orbiter PHI p. 458

E2.6-0011-24 17:50 - 18:10

Relationship Between Kinetic and Magnetic Helicity in Solar Active Regions
Liu, Yang; Komm, Rudi; Brummell, Nicholas; Manek, Bhishek; Valori, Gherardo

E2.6-0012-24 18:10 - 18:30

On the magnetic connectivity of solar active regions during cycle 24
Regnier, Stephane; Tiwari, Sanjiv Kumar

Coffee Break

Magnetic field modeling: Applications

Chair: Yang, Shangbin
Room: CON-110

E2.6-0013-24 09:00 - 09:20 (solicited)

A Role of Small-scale Emerging Flux in Explosive Solar Eruptions
Inoue, Satoshi; Miyoshi, Takahiro; Nguyen, Huu Minh Triet; Hayashi, Keiji; Jing, Ju; Cao, Wenda; Wang, Haimin

E2.6-0014-24 (WITHDRAWN) 09:20 - 09:40 (solicited)

Exploring Flux Rope Evolution in Time-Dependent Data-Driven Magnetofrictional Simulations with Twist
Price, Daniel; Pomoell, Jens; Kilpua, Emilia

E2.6-0015-24 09:40 - 10:00

Adjusting the Potential Field Source Surface Based on MHD Simulations
Huang, Zhenguang; Toth, Gabor; Huang, Jia; Sachdeva, Nishtha; Van der Holst, Bart; Manchester IV, Ward

E2.6-0016-24 10:00 - 10:20

Collisional Shearing: A Possible Process Behind Recurrent Explosive Activity in Solar Active Regions
Chintzoglou, Georgios; Cheung, Mark

Fri, Jul 19, 2024

F2.4 Genetic Epigenetic and Metabolic Changes in Spaceflight and Simulated Spaceflight

Main Scientific Organizer: Sun, Yeqing
Deputy Organizer: Wu, Honglu

Systems Biology of space Environment

Chair: Sun, Yeqing
Room: EC1-212

F2.4-0001-24 09:00 - 09:30

TRANSCRIPTOMIC ANALYSIS OF ISS CREWMEMBERS' PERIPHERAL BLOOD MONONUCLEAR CELLS REVEALS HOMEOSTATIC REGULATIONS IN SPACE
Wu, Honglu; Ding, Lianghao; Krieger, Stephanie; Zhang, Ye; Babiak-Vazquez, Adriana; Crucian, Brian; Moreno-Villanueva, Maria

F2.4-0002-24 09:30 - 09:50

AstRNAuts and NUT: using commercial flight opportunities to study the response of the human organism to the space environment
Pezzilli, Serena Team: Research Team p. 457

F2.4-0003-24 09:50 - 10:10

Systemic Genome Correlation Loss as a Central Characteristic of Spaceflight
Sakharkar, Anurag

F2.4-0004-24 10:10 - 10:30

Integrated spaceflight transcriptomic and simulated space experiments identifies the key molecular features and their associated physiological changes in space-flown C. elegans
Zhang, Ge; Zhao, Lei; Li, Zejun; Sun, Yeqing

Coffee Break

Molecular mechanisms of biological effects of stress in space environment

Chair: Wu, Honglu
Room: EC1-212

F2.4-0005-24 11:00 - 11:30

Integrating evolutionarily conserved mechanism of response to radiation for exploring novel Caenorhabditis elegans radiation-responsive genes for estimation of radiation dose associated with spaceflight
Zhao, Lei; Li, Zejun; Huang, Baohang; Mi, Dong; Sun, Yeqing

F2.4-0006-24 11:30 - 11:50

The molecular mechanism of biological effects of Arabidopsis thaliana induced by space radiation in Medium Earth orbit
Zhang, Meng; Chenyang, Zhao; Li, Yuhang; Shao, Zhenzhen; Yu, Chaoqun; Zhihui, Chao; Liu, Hua; Yitong, Xie; Sun, Yeqing

F2.4-0007-24 11:50 - 12:10

Tolerance of long-term space exposure stresses and their damage mechanisms in dauer Caenorhabditis elegans
Yuan, Shuqi; Wang, Wei; Zhou, Liping; Peng, Wei; Liang, Zheng; Zhang, Meng; Zhao, Lei; Chenyang, Zhao; Zhang, Binquan; Sun, Yeqing

F2.4-0008-24 12:10 - 12:30

Shooting for the stars- Using the brain's response to altered gravity to understand aging
Paller, Éva; Trombetta Lima, Marina

Lunch Break

Automated on-orbit analysis techniques and applications

Chair: Sun, Yeqing
Room: EC1-212

F2.4-0009-24 15:00 - 15:30

WormSpace Microdevice for automated and longitudinal phenotype detection of multiple strains of Caenorhabditis elegans at single-worm level on the Chinese Space Station
Zhong, Runtao; Yang, Qianqian; Chang, Wenbo; Wang, Mengyu; Wang, Wei; Wang, Chao; Tong, Guanghui; Zhang, Tao; Sun, Yeqing

F2.4-0010-24 15:30 - 15:50

On-orbit observation of different C. elegans phenotypes and target gene dynamics for analyzing the biological effects of stresses of space environment
Wang, Wei; Yuan, Shuqi; Liang, Zheng; Yang, Qianqian; Chang, Wenbo; Liu, Yuanyuan; Zhong, Runtao; Zhang, Meng; Wang, Chao; Tong, Guanghui; Zhang, Tao; Sun, Yeqing

F2.4-0011-24 15:50 - 16:10

Improvement and validation of the nematode microfluidic chip for automated cultivation and monitoring of Caenorhabditis elegans on the Chinese Space Station
Zhong, Runtao; Chang, Wenbo; Yang, Qianqian; Wang, Mengyu; Wang, Wei; Sun, Yeqing

F2.4-0012-24 16:10 - 16:30

Flow cytometry automatic immunofluorescence staining technology suitable for space microgravity environment
Zhang, Zhengyi; Wang, Mengyu; Zhong, Runtao; Liu, Xinyu; Sun, Yeqing

Coffee Break

Mutagenesis in space environment and its application

Chair: Wu, Honglu
Room: EC1-212

F2.4-0013-24 17:00 - 17:30
Comparison of radiation-induced damage between livers from control and chimeric mice
Wu, Honglu; Hoffman, Kristyn; Krieger, Stephanie

F2.4-0014-24 17:30 - 17:50
The filamentous conchocelis of Porphyra Yezoensis successfully accomplished its initial space mission
Gong, Ning; Shao, Kuishuang; Tian, Linfang; Wan, Xing; Zhang, Meng; Sun, Yeqing

F2.4-0015-24 17:50 - 18:10
Effects of space proton radiation and simulated μG effects on the embryonic mouse hypothalamic N38 cells
Yang, Su-Geun; Suwanprakorn, Nattha; Kim, Kyu-Sung

F2.4-0016-24 (WITHDRAWN) 18:10 - 18:30
Microbial Response to a Variety of "Simulated Microgravity" Environments
Parker, Ceth; Singh, Nitin Kumar; Venkateswaran, Kasthuri; Chandar, Atul; Blachowicz, Adriana; O'rourke, Aubrie; Mason, Chris; Diaz, Angie; Richards, Jeffrey; Leo, Patrick; Li, Wenyan

Fri, Jul 19, 2024

F3.4 Interstellar Organic Molecules in the Age of JWST and ALMA

Main Scientific Organizer: Garrod, Robin
Deputy Organizer: Herbst, Eric

Experiments

Chair: Molpeceres de Diego, Germán
Room: EC1-213

F3.4-0009-24 09:00 - 09:30
Behavior of carbon atom on ice
Watanabe, Naoki; Tsuge, Masashi

F3.4-0010-24 09:30 - 09:50
Missing nitrogen and sweating ice: A look at interstellar chemistry via comet 67P
Ligterink, Niels; Kipfer, Kristina Anna; Rubin, Martin; Altwegg, Kathrin; Haenni, Nora; Galli, Andre; Wurz, Peter; Wampfler, Susanne

F3.4-0011-24 09:50 - 10:10
Chemical structure analysis of cosmic organic dust analogues using high-temperature vacuum temperature programmed desorption
Senoo, Riko; Sakon, Itsuki; Yoshii, Takeharu; Hama, Tetsuya; Shimizu, Shunsuke; Kawaguchi, Ryo; Onaka, Takashi

F3.4-0012-24 (WITHDRAWN) 10:10 - 10:30
Accurate Spectroscopic Characterization of Molecules: Seeds for the Chemical Origin of Life
Inostroza, Natalia

Coffee Break

Simulations
Chair: Yang, Yao-Lun
Room: EC1-213

F3.4-0013-24 11:00 - 11:20
A framework for incorporating binding energy distribution in rate equation models
Furuya, Kenji

F3.4-0014-24 11:20 - 11:40
Breaking down the chemical complexity of high-mass star-forming cores
Bonfand, Melisse; Garrod, Robin

F3.4-0015-24 11:40 - 12:00
Non-linear Astrochemical Kinetics: the effect of autocatalysis in interstellar chemistry
Dufour, Gwenaelle

F3.4-0016-24 12:00 - 12:15
Astrochemical modeling of aminoketene, ethanolamine, and glycine production in interstellar ices
Willis, Sydney; Garrod, Robin; Krasnokutski, Serge

F3.4-0017-24 12:15 - 12:30
Interstellar Organic Molecules in the Age of ALMA and JWST: Computational Chemistry Perspective
Pandey, Anshika; Pathak, Amit; Singh, K.a.p.

Lunch Break

Observations
Chair: das, Ankan
Room: EC1-213

F3.4-0018-24 15:00 - 15:30
Origin of Complex Molecules in Embedded Protostars
Yang, Yao-Lun Team: CORINOS p. 449

F3.4-0019-24 15:30 - 15:50
Water and organics in embedded young disks
Harsono, Daniel

F3.4-0020-24 15:50 - 16:10
Understanding the Formation of Complex Organic Molecules in Typical Starless Cores
Scibelli, Samantha; Garrod, Robin

F3.4-0021-24 16:10 - 16:30
Spatial distribution of acetaldehyde in Orion KL: observations and chemical modeling
Jin, Miwha; Remijan, Anthony; Garrod, Robin; Baek, Giseon; Herbst, Eric; Lee, Jeong-Eun; Charnley, Steven; Cordiner, Martin

Coffee Break

Observations
Chair: Bonfand, Melisse
Room: EC1-213

F3.4-0022-24 17:00 - 17:30
Organic Molecules in Protostellar Cores: From the outer Milky Way to the Magellanic Clouds
Shimonishi, Takashi; Tanaka, Kei; Zhang, Yichen; Izumi, Natsuko; Furuya, Kenji; Yasui, Chikako; Cheng, Yu; Sato, Asako

F3.4-0023-24 17:30 - 17:50
The ALMA-ATOMS and QUARKS survey programs: Chemical properties of high-mass Protoclusters
Liu, Tie Team: ALMA-ATOMS p. 446

F3.4-0024-24 17:50 - 18:10

The Molecular Inventory Associated with the Extremely Young Protostellar Outflows in HOPS-87
Hsu, Shih-Ying; Lee, Chin-Fei; Liu, Sheng-Yuan; Johnstone, Doug; Liu, Tie Team: ALMASOP p. 446

F3.4-0025-24 (WITHDRAWN) 18:10 - 18:30

Interferometric Observations of Complex Organic Molecules in Orion-KL
Charnley, Steven; Kuan, Yi-Jehng; Chuang, Yo-Ling; Liu, Fang-Chun

Fri, Jul 19, 2024

F5.2 Exploring the Space Exposome and Approaches for Assessing Spaceflight-Associated Human Health Risks

Main Scientific Organizer: Huff, Janice
Deputy Organizer: Laiakis, Evagelia; Werneth, Charles

Space Radiation Risk Assessment

Chair: Werneth, Charles
Room: EC1-211

F5.2-0001-24 09:00 - 09:20

The Multi-model Ensemble Risk Assessment (MERA) Project
Werneth, Charles; Slaba, Tony; Plante, Ianik; Poignant, Floriane; Xu, Xiaojing; Blattnig, Steve; Norman, Ryan; Clowdsley, Martha; Huff, Janice

F5.2-0002-24 09:20 - 09:40 (solicited)

Space Radiation Exposure and Risk Mediated Clonal Hematopoiesis
Park, Eunbee; Doviak, Heather; Evans, Megan; Polizio, Ariel; Hirschi, Karen; Garrett-Bakelman, Francine; Goukassian, David; Walsh, Kenneth

F5.2-0003-24 09:40 - 10:10 (solicited)

Biologically-based mechanistic models of radiation-related disease
Eidemüller, Markus

F5.2-0004-24 10:10 - 10:30

Elucidating the Spectrum of Human Radiosensitivity: A Five-Year GWAS Analysis of Blood Cell Response to Simulated Space Radiation
Costes, Sylvain; Cekanaviciute, Egle; Sanders, Lauren; Rienecker, Kira; Bansal, Ananya; Casaletto, James

Coffee Break

Microgravity and Spaceflight Health Risks

Chair: Laiakis, Evagelia
Room: EC1-211

F5.2-0005-24 11:00 - 11:30

New routes to advance knowledge in microgravity research: the ASI research portfolio for Ax-3
Perilli, Serena; Di Fino, Luca; Crisconio, Marino; Esposito, Claudia; Ferranti, Francesca; Pacelli, Claudia; Parca, Luca; Pezzilli, Serena; Valentini, Giovanni; Mascetti, Gabriele; Negri, Barbara Team: Research team p. 457

F5.2-0006-24 11:30 - 11:50

Space-omics related to Neuromuscular Mission Health
Blottner, Dieter

F5.2-0007-24 (WITHDRAWN) 11:50 - 12:10

ALTERATIONS IN ENERGY METABOLISM PATHWAYS IN SKELETAL MUSCLE IN RELATION TO MICROGRAVITY ANALOG AND SPACE RADIATION
Laiakis, Evagelia; Kosowski, Emma; Mak, Tytus; Blaber, Elizabeth; Willey, Jeffrey; Beheshti, Afshin

F5.2-0008-24 12:10 - 12:30 (solicited)

Combined effects of radiation and simulated microgravity on intestinal tumorigeness in ApcMin/+ mice
Tsuruoka, Chizuru; Suzuki, Kenshi; Morioka, Takamitsu; Seo, Hitomi; Ogawa, Mari; Kambe, Ryousuke; Imaoka, Tatsuhiko; Kakinuma, Shizuko; Takahashi, Akihisa

Lunch Break

Lunar Mission Risks and Health Monitoring

Chair: Huff, Janice
Room: EC1-211

F5.2-0009-24 15:00 - 15:20 (solicited)

Lunar Dust Health Risks for Astronauts
Miranda, Silvana; Marchal, Shannon; Cumps, Lina; Dierckx, Jenne; Krüger, Marcus; Grimm, Daniela; Baatout, Sarah; Tabury, Kevin; Baselet, Bjorn

F5.2-0010-24 15:20 - 15:40

The Smart Modular Habitation (SMH): Enabling Mobile Emergency Healthcare System on the Moon
Kim, Kyunghwan; Park, Joowoong; Yi, Eojin; Choi, Wooseok; Kim, Changyu; Kim, Intae; Go, Yoojeong

F5.2-0011-24 15:40 - 16:00

Continuous Participant Location and Heart Rate Variability – in Ground-based Analogue Missions
Magkos, Michail; Elçadi, Guilherme; Forsman, Mikael Team: APISC - ICE - KTH p. 448

F5.2-0012-24 16:00 - 16:15

Devising Methods for the Analogue Medical and Psychological Monitoring of Astronauts
Harvey, Matthew; Balfe, Molly; Robertson, Caitlin; Foing, Bernard H.; Laffey, Jack; Horvat, Ivan; Fazel Hesar, Fatemeh

F5.2-0013-24 16:15 - 16:30

Reinventing Space Health: The T-Mini System and Cybernetic Cycles for Enhanced Astronaut Wellbeing
Opatz, Oliver; Opatz, Dr. Oliver; Gunga, Hanns-Christian

Coffee Break

Psychological, Cognitive and Sensorimotor Effects

Chair: Britten, Richard
Room: EC1-211

F5.2-0014-24 (WITHDRAWN) 17:00 - 17:20

Psychological Adaptation Processes (PAP) During Long-Term Wintering: Distinct Profiles and Trajectories
Nicolas, Michel; Lou, Perrot; Rocheleau, Julie; Martinent, Guillaume; Rocheleau, Julie Team: OccupICE p. 455

F5.2-0015-24 17:20 - 17:40

Ground-based Modeling as an Approach for Assessing and Developing a strategy to mitigate Spaceflight-Associated Human Sensorimotor Risks
Saveko, Alina; Bekreneva, Maria; Tomilovskaya, Elena

F5.2-0016-24 17:40 - 18:00

ESTABLISHING THE IMPACT OF SLEEP DISRUPTIONS ON THE DEFAULT MODE NETWORK SUPPRESSION UNDER COGNITIVE LOADING.
Britten, Richard; Tenenbaum, Max; Tamgue, Ella; Yoon, Hargsoon; Sanford, Larry

F5.2-0017-24 18:00 - 18:15

Changes of support afferentation as a factor of brain structural changes in spaceflight and prospects for the development of countermeasures with support stimulation
Bekreneva, Maria; Saveko, Alina; Riabova, Alexandra; Tomilovskaya, Elena

F5.2-0018-24 18:15 - 18:30

Cerebroprotective mechanism of simulated microgravity on ischemic stroke rats by proteomics approach
Cui, Yaoyuan Team: areospace medical center p. 448

Fri, Jul 19, 2024

H0.4 Gravitational Waves

Main Scientific Organizer: Vallisneri, Michele
Deputy Organizer: Armano, Michele

Room: EC1-216

H0.4-0001-24 09:00 - 09:20

HUST Drop Tower: A 2.0 s Vacuum Drop Tower for Microgravity Research
Wu, Shuchao; Wang, Liang; Yu, Jianbo; Zhou, Zebing

H0.4-0002-24 09:20 - 09:35

The electromagnetic-related acceleration noise acting on the test mass based on far earth orbit
Low, Kian Hong; Wang, Zhaokui

H0.4-0003-24 09:35 - 09:55

Modeling the charge control system of LISA gravitational reference sensor
Vignotto, Davide; Ferroni, Valerio; Dolesi, Rita; Cavalleri, Antonella; Dal Bosco, Davide

H0.4-0004-24 09:55 - 10:10

Assessing the impact of metallic adhesion on the injection of a proof mass into a geodesic trajectory
Dalla Ricca, Edoardo; Bortoluzzi, Daniele; Zanoni, Carlo; Tomasi, Matteo; Vignotto, Davide

H0.4-0005-24 10:10 - 10:25

Progress of high-precision inertial sensor for TianQin
Bai, Yanzheng; Zhou, Zebing; Wu, Shuchao

Coffee Break

Room: EC1-216

H0.4-0006-24 11:00 - 11:20

Advanced Virgo detector, status and upgrades for the future observing runs
Di Pace, Sibilla

H0.4-0007-24 11:20 - 11:35

Evaluation of squeezing performances in the Advanced Virgo+ gravitational-wave detector
de Marco, Francesco

H0.4-0008-24 11:35 - 11:50

Laboratory demonstration of high precision inter-satellite interferometric ranging for space-based application
Lin, Xuling; Wu, Jingui; Wu, Kailan; Guo, Zhongkai; Zheng, Yongchao

H0.4-0009-24 11:50 - 12:05

Study of radio frequency ion micro-thruster for space gravitational wave detection
Ma, Longfei; He, Jianwu; Duan, Li; Kang, Qi

H0.4-0010-24 12:05 - 12:25

Machine-Learning Based Low-Latency Pipelines for LISA Mission and Other Future Gravitational Wave Observatories in Space
Caramete, Laurentiu Ioan; Tonoiu, Daniel; Caramete, Ana; Pislan, Florentina

Fri, Jul 19, 2024

H0.5 Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics

Main Scientific Organizer: Peron, Roberto
Deputy Organizer: Müller, Jürgen

Room: EC1-216

H0.5-0001-24 15:00 - 15:30

General relativistic geodesy
Laemmerzahl, Claus; Hackmann, Eva; Perlick, Volker; Philipp, Dennis; Seemann, Florian

H0.5-0002-24 15:30 - 15:50

General Relativistic Chronometry on Ground and in Space
Philipp, Dennis; Hackmann, Eva; Laemmerzahl, Claus

H0.5-0003-24 15:50 - 16:10

Implementation of clock measurements for satellite gravimetry within the scope of XHPS – A feasibility study
Huckfeldt, Moritz; Rievers, Benny; Woeske, Florian; List, Meike

H0.5-0004-24 16:10 - 16:30

Constraints on domain wall dark matter within the Galileo for science project
Sapio, Feliciana; Di Marco, Alessandro; Visco, Massimo; Lucchesi, David; Cinelli, Marco; Fiorenza, Emiliano; Lefevre, Carlo; Loffredo, Pasqualino; Lucente, Marco; Magnafico, Carmelo; Peron, Roberto; Santoli, Francesco; Vespe, Francesco

Coffee Break

Room: EC1-216

H0.5-0005-24 17:00 - 17:20

Title: Optical clock comparison at intercontinental scale using the high-frequency VLBI
Heo, Myoung-Sun; Jung, Taehyun; Byun, do Young; Jhe, do Heung; Xu, Shuangjing; Yi, Sang Oh; Cho, Buseung; Clivati, Cecilia; Pizzocaro, Marco; Calonico, Davide; Condio, S.; Donadello, Simone; Goti, I.; Mura, A.; Levi, F.; Ricci, Roberto; Negusini, Monia; Stagni, Matteo Team: KRISS Time and Frequency Team p. 453

H0.5-0006-24 17:20 - 17:40

Tightly coupled Skymark/INS Integrated Navigation Using Very Short-Arc Observations of Near-Earth Satellites
Liu, Tianci; Zeng, Xiangyuan

H0.5-0007-24 17:40 - 18:00

Performance of Novel Accelerometers and Satellite Formations for Future Gravimetry Missions
Kupriyanov, Alexey; Reis, Arthur; Knabe, Annike; Fletling, Nina; Romeshkani, Mohsen; Hosseiniarani, Alireza; Schilling, Manuel; Müller, Vitali; Müller, Jürgen

H0.5-0008-24 18:00 - 18:15

Ionosphere Monitoring and Modeling in SHAO IGS Analysis Center
Song, Shuli; Li, Wei; Zhou, Weili; Jin, Xulei

H0.5-0009-24 18:15 - 18:30

Gravitational redshift tests with the Moonlight lunar constellation
Iess, Luciano; de Marchi, Fabrizio; Tartaglia, Pasquale; Sesta, Andrea

Fri, Jul 19, 2024

PE.1 Space Explorers in Schools - Empowering the Next Generation of Researchers

Main Scientific Organizer: Doran, Rosa
Deputy Organizer: Jeong, Haeim; Rojas, Gustavo

Room: EC1-314

PE.1-0013-24 09:00 - 10:30

Discovering the Universe with ESA science missions: an educational approach
Benitez Herrera, Sandra

Coffee Break

Room: EC1-314

PE.1-0014-24 11:00 - 12:30

Improving the problem solving competencies of students with conversational agents and AI
Doran, Rosa

Lunch Break

Room: EC1-314

PE.1-0015-24 15:00 - 16:30

Teacher's Presentations
Doran, Rosa

Coffee Break

Room: EC1-314

PE.1-0016-24 17:00 - 18:30

Evaluation & Closing
Doran, Rosa

Fri, Jul 19, 2024

PEX.2 International and Multiple Stakeholders Cooperation in the Sustainable Exploration and Utilisation of the Moon, Near Earth Asteroids, Mars, and Other Celestial Bodies

Main Scientific Organizer: Galli, Andre
Deputy Organizer: Foing, Bernard H.

Room: EC1-218

PEX.2-0001-24 09:00 - 09:15 (solicited)

Towards good practices for conducting lunar activities with due regard to science and ethics
Salmeri, Antonino

PEX.2-0002-24 09:15 - 09:30

Preparation for Astrobiological Solar System Exploration Missions in Orbit and on the Moon
de Vera, Jean-Pierre

PEX.2-0003-24 09:30 - 09:45 (solicited)

Innovative Funding Model for the Development of Space Instruments and Scientific Payloads for the Moon Economy
Dubrulle, Francois; Foing, Bernard H.

PEX.2-0004-24 09:45 - 10:00

Landing Site Selection for Lunar and Martian Missions using Multi Stakeholder-Criteria Analysis
Garg, Shaifali; Foing, Bernard H.

PEX.2-0005-24 10:00 - 10:15

Lunar Resource Exchange: Facilitating Trade and Sustainable Utilization of Lunar Resources
Fazel Hesar, Fatemeh; Foing, Bernard H. Team: Eurospacehub academy p. 450

PEX.2-0006-24 10:15 - 10:30 (solicited)

Significance of Individual Adaptations and Morphology in Human Space Exploration
S R, Shine

Coffee Break

Room: EC1-218

PEX.2-0007-24 11:00 - 11:15 (solicited)

Apophis T-5 years : Ongoing plans, mission concepts under study and international cooperation
Michel, Patrick

PEX.2-0008-24 11:15 - 11:30 (solicited)

A New Frontiers Mission Concept for Ice Giant System Exploration
Bolton, Scott; Stevenson, David John; Lopes, Rosaly; Connerney, John; Levin, Steven; Ermakov, Anton; Atreya, Sushil K.

PEX.2-0009-24 11:30 - 11:45 (solicited)

Generic Entry Probe Program (GEPP) – an international initiative promoting the development of European descent modules dedicated to the in situ exploration of giant planets
Mousis, Olivier Team: GEPP team p. 450

PEX.2-0010-24 11:45 - 12:00 (solicited)

OPENS Program: How We Can Change the Game of Outer Planet Exploration in a More Agile and Sustainable Way
Yano, Hajime; Funase, Ryu; Ozaki, Naoya; Nakajima, Shintaro; Hyodo, Ryuki Team: OPENS Program Concept Study Team p. 456

PEX.2-0011-24 12:00 - 12:15 (solicited)

Advances in Planetary Sustainability
Galli, Andre; Losch, Andreas; Yap, Xiao-Shan; Schildknecht, Thomas

PEX.2-0012-24 12:15 - 12:30

Outcomes of A Workshop on Perspectives of New Entrant Space Programs on Space Resources
Chung, Soyoung

Fri, Jul 19, 2024

PSW.1 Parameterising Performance Assessment within the Space Weather Domain: Validation and Verification at Different Stages in the R2O2R Process

Main Scientific Organizer: Glover, Alexi
Deputy Organizer: Kuznetsova, Maria

Room: EC1-315

PSW.1-0001-24 11:00 - 11:20 (solicited)

NASA's Ongoing SEP Model Validation Effort Driving an Effective R2O2R Process
Whitman, Kathryn; Quinn, Philip Team: ISEP Project p. 452

PSW.1-0002-24 11:20 - 11:40 (solicited)

An Online Platform for Solar Wind Model Validation: Progress from the COSPAR ISWAT Ambient Solar Wind Validation Team
Reiss, Martin; Muglach, Karin; Perri, Barbara; Samara, Evangelia; Mullinix, Richard; Wiegand, Chiu

PSW.1-0003-24 11:40 - 11:55

Implementing 3D CME geometry in the Drag-based model (DBM)
Dumbovic, Mateja; Sudar, Davor; Vrsnak, Bojan; Čalogović, Jaša; Temmer, Manuela

PSW.1-0004-24 11:55 - 12:15 (solicited)

Validation of Model Results in Response to the COSPAR ISWAT Challenge
Wang, Dedong; Shprits, Yuri; Teng, Shangchun; Drozdov, Alexander; Castillo, Angelica

PSW.1-0005-24 12:15 - 12:30

Discussion: Validation activities to support advancing understanding and modelling of space environment processes
Ishii, Mamoru

Coffee Break

Room: EC1-315

PSW.1-0006-24 15:00 - 15:20 (solicited)

RB-FAN performances assessment campaign: assessing objectively forecast accuracy for Space Weather applications
Maget, Vincent; Papadimitriou, Constantinos; Ferlin, Antoine

PSW.1-0007-24 15:20 - 15:40 (solicited)

COMPARISON OF RADIATION MODELS FOR ICAO SPACE WEATHER SERVICES
Ishii, Mamoru Team: ICAO Space Weather Center Coordination Group Sub Team 11 p. 452

PSW.1-0008-24 15:40 - 16:00 (solicited)

Validation of SWPC ionosphere and thermosphere operational products
Vigh, Jonathan; Fuller-Rowell, Tim; Fang, Tzu-Wei; Fuller-Rowell, Dominic; Li, Zhuxiao; Kubaryk, Adam; Millward, George; Fedrizzi, Mariangel; Wang, Jun; Durgonics, Tibor; Jensen, Tara; Martinkus, Charlotte; Centinello, Frank; Maute, Astrid; Steenburgh, Robert

PSW.1-0009-24 16:00 - 16:15

Validation of ionospheric storms in a model GAIA under lower atmospheric and magnetospheric inputs using I-scale index
Tao, Chihiro; Jin, Hidekatsu; Shinagawa, Hiroyuki; Miyoshi, Yasunobu; Fujiwara, Hitoshi; Nishioka, Michi

PSW.1-0010-24 16:15 - 16:30

Discussion: Performance Assessment in an Operational Environment
Dierckxsens, Mark

Lunch Break

Room: EC1-315

PSW.1-0011-24 17:00 - 17:20 (solicited)

Forecast verification and model validation activity in the International Space Environment Services
Kubo, Yuki; Steenburgh, Robert

PSW.1-0012-24 17:20 - 17:40 (solicited)

R2O and verification tool of operational space weather forecast
Yoon, Kichang

PSW.1-0013-24 17:40 - 17:55

Validation and Verification within the ESA Space Weather Service Network
Glover, Alexi; Luntama, Juha-Pekka; Da Dalt, Federico; Laurens, Hannah; Palacios, Judit; Keil, Ralf

PSW.1-0014-24 17:55 - 18:10

The performance of the COMESEP SEPForecast tool during 10 years of operations
Dierckxsens, Mark; Crosby, Norma Bock; Zychová, Lenka

PSW.1-0015-24 18:10 - 18:30

Discussion: Frameworks Supporting Performance Assessment in the Space Weather Domain - Towards Community Consensus
Glover, Alexi; Kuznetsova, Maria

Fri, Jul 19, 2024

PSW.8 The Geomagnetic Environment Leading to GIC Impacts on Power-infrastructure

Main Scientific Organizer: Opgenoorth, Hermann
Deputy Organizer: Gannon, Jennifer

Room: EC1-315

PSW.8-0001-24 09:00 - 09:15

The March 1940 Superstorm: Geoelectromagnetic Hazards and Impacts on American Communication and Power Systems
Love, Jeffrey; Rigler, E. Joshua; Hartinger, Michael; Lucas, Greg; Kelbert, Anna; Bedrosian, Paul

PSW.8-0002-24 09:15 - 09:30

Estimating the Impact of the Magnetometer Network on the SWPC Geoelectric Field Model
Guerra, Jordan; Balch, Christopher

PSW.8-0003-24 09:30 - 09:45

Intense Geomagnetic Storms and Power Grid Anomalies in Poland during the Solar Cycle 24
Gil, Agnieszka; Modzelewska, Renata; Pozoga, Mariusz; Siluszyk, Agnieszka; Siluszyk, Marek; Tomasik, Lukasz; Wawrzaszek, Anna; Wawrzynczak-Szaban, Anna

PSW.8-0004-24 09:45 - 10:00

Geoelectric field modelling for GIC hazard evaluation in Germany's power grid
Pick, Leonie; Grayver, Alexander; Moorkamp, Max; Guimaraes Carvalho, Aline; Matzka, Jürgen; Ritter, Oliver

PSW.8-0005-24 10:00 - 10:15

Investigating Magnetic K-Index Variability Across Multiple Magnetic Stations Using L1 Solar Wind Measurements.
Costa, Joaquim; Oliveira E Silva, Alexandre José

PSW.8-0006-24 (WITHDRAWN) 10:15 - 10:30

The Geomagnetic Environment Leading to GIC Impacts on Power-infrastructure
Vandegriff, Erik; Glocer, Alex; Fok, Mei-Ching; Welling, Daniel; Mukhopadhyay, Agnit; Dimmock, Andrew; Morley, Steven

Sat, Jul 20, 2024

B3.3 Life Science in Space and on the Moon

Main Scientific Organizer: Fomina, Elena
Deputy Organizer: Foing, Bernard H.

Room: EC1-215

B3.3-0001-24 09:00 - 09:15

Is it essential to prevent negative gravity-dependent changes in lunar missions?
Fomina, Elena; Luchitskaya, Elena; Vassilieva, Galina; Ronanov, Pavel; Burakova, Anna

B3.3-0002-24 09:15 - 09:30

Navigation on the lunar base during scientific experiments by cosmonauts
Kharlamov, Maksim; Fomina, Elena; Kulikov, Igor; Kruchkov, Boris; Dubinin, Vladimir

B3.3-0003-24 09:30 - 09:45

Re-thinking the Role of Space Architecture in Manned Explorations
Magkos, Michail

B3.3-0004-24 09:45 - 10:00

Lunar Environmental Observation Station(s)
Smith, Heather

B3.3-0005-24 10:00 - 10:15

Understanding Risks to Human Thermoregulation in Lunar Environments: Insights from a Computational Model
S R, Shine; M K, Chitramol

B3.3-0006-24 10:15 - 10:30

Concept Study of a Centralized Test Facility for Advancing Space Food Systems
Kim, Kyunghwan; Tor, Blomqvist; Schubert, Daniel

Coffee Break

Room: EC1-215

B3.3-0007-24 11:00 - 11:20

Dust and dusty plasmas at the Moon: Properties, manifestations, potential danger
Zelenyi, Lev; Popel, Sergey; Zakharov, Alexander

B3.3-0008-24 11:20 - 11:40

CEREBRAL BLOOD FLOW RESPONSES DURING MICROGRAVITY
Schneider, Stefan; Badali, Constance; Wollseiffen, Petra

B3.3-0009-24 11:40 - 12:00

How is space radiation not a showstopper and why humans have always accepted the risk of exploration
Gulacsi, Eszter; Bannova, Olga

B3.3-0010-24 12:00 - 12:15

Radiation-safe human bases on the Moon
Dobynde, Mikhail; Guo, Jingnan

B3.3-0011-24 12:15 - 12:30

ombined electromyostimulation as a potential countermeasure against hypogravitational motor syndrome signs for lunar missions
Riabova, Alexandra; Nosikova, Inna; Kitov, Vladimir; Tomilovskaya, Elena

Sat, Jul 20, 2024

B4.3 Mars Science Results

Main Scientific Organizer: Sefton-Nash, Elliot
Deputy Organizer: Hays, Lindsay; Kminek, Gerhard

Room: EC1-217

B4.3-0011-24 09:00 - 09:20

Mars Express HRSC global colour mosaic from high altitude observations
Michael, Gregory; Tirsch, Daniela; Matz, Klaus-Dieter; Zuschneid, Wilhelm; Hauber, Ernst; Gwinner, Klaus; Walter, Sebastian; Jaumann, Ralf; Roatsch, Thomas; Postberg, Frank

B4.3-0012-24 (WITHDRAWN) 09:20 - 09:35

A past martian lake within a chloride-rich topographic depression
Singh, Deepali; Kumar Sinha, Rishitosh; Acharyya, Kinsuk

B4.3-0013-24 09:35 - 09:50

Mineralogy of the Meridiani Planum site based on the MiniTES spectra of the Opportunity rover
Zalewska, Natalia; Czechowski, Leszek

B4.3-0014-24 09:50 - 10:05

Comparative basin hypsometric analysis of Earth, Mars, the Moon and simulated landforms
Luo, Wei; Fang, Jichao; Howard, Alan; Craddock, Robert A.

B4.3-0015-24 10:05 - 10:20

The formation of gullies on Mars
Czechowski, Leszek

Sat, Jul 20, 2024

C1.1 Recent Advances in Equatorial, Low- and Mid-Latitude Mesosphere, Thermosphere, and Ionosphere Studies

Main Scientific Organizer: Fagundes, Paulo Roberto
Deputy Organizer: Kavutarapu, Venkatesh

Neutral atmosphere and Ionospheric dynamics

Chair: Kavutarapu, Venkatesh
Room: EC1-312

C1.1-0052-24 11:00 - 11:15

Observations of solar wind-magnetosphere-ionosphere coupling and its impact on equatorial ionospheric electrodynamics
Le, Guan; Liu, Guiping; Yizengaw, Endawoke

C1.1-0053-24 11:15 - 11:30

Mesospheric O3 and CO profiles study by a new ground-based microwave radiometer
Milinevskyi, Gennadii; Shi, Yu; Shi, Yu; Wang, Lidong; Forkman, Peter; Wang, Xiaolong; Han, Wei; Pylypenko, Oleksandr; Reshetnyk, Volodymyr; Sun, Xiaopeng

C1.1-0054-24 11:30 - 11:45

Ion Temperature Exploration from 80 to 300 km with a Three-Frequency Ca+ Doppler Lidar
Wu, Fang; Du, Lifang; Jiao, Jing; Yang, Guotao

C1.1-0055-24 11:45 - 12:00

Spatiotemporal Sequence Prediction of Global Ionospheric Total Electron Content Map Based on Machine Learning
Liu, Peng; Yokoyama, Tatsuhiro; Yamamoto, Mamoru

C1.1-0056-24 12:00 - 12:15

The Modular Spectrometer for Atmosphere and Ionosphere Characterization (MoSAIC) for the Geospace Dynamics Constellation (GDC) mission
Lee, Yuni; Benna, Mehdi; Conde, Mark; England, Scott; Klenzing, Jeff; Qian, Liying; Ridley, Aaron; Samara, Marilia; Stone, Shane

Sat, Jul 20, 2024

C1.2 Coupling Processes of the Magnetosphere-ionosphere-thermosphere System in the Formation of Various Auroras

Main Scientific Organizer: Jee, Geonhwa
Deputy Organizer: Wang, Wenbin

Room: EC1-313

C1.2-0011-24 09:00 - 09:15

Variations of Auroral Onset Locations and Maximum Extents from Polar VIS and UVI Observations
Wannawichian, Suwicha; Miyashita, Yukinaga

C1.2-0012-24 09:15 - 09:30

Dayside aurora with simultaneous red and green emissions observed at Jang Bogo Station, Antarctica
Kwon, Hyuck-Jin; Jee, Geonhwa; Choi, Yoonseung; Ham, Young-Bae; Park, Kyung Sun; Lee, Changsup

C1.2-0013-24 09:30 - 10:00 (solicited)

Machine Learning-based Particle Precipitation Model (ML-PPM): An Innovative Global Aurora Spectrum Model
Connor, Hyunju; Sai Gowtam, Valluri; Hampton, Don; Owolabi, Charles; Ozturk, Dogacan; Keesee, Amy

C1.2-0014-24 10:00 - 10:15

Simultaneous Occurrence of Substorm and Pseudosubstorm
Miyashita, Yukinaga; Talha, Madeeha

C1.2-0015-24 10:15 - 10:30

The Unique Seasonal Influence of the Interplanetary Magnetic Field on Martian Proton Aurora
Hughes, Andrea; Dibraccio, Gina; Romanelli, Norberto; Chaffin, Michael; Mierkiewicz, Edwin; Bowers, Charles; Schneider, Nicholas; Halekas, Jasper; Espley, Jared; Mayyasi, Majd; Curry, Shannon

Coffee Break

Room: EC1-313

C1.2-0016-24 11:00 - 11:15

Auroral Precipitation Effects on Ionospheric Conductance and Particle and Joule Heating
Chen, Margaret; Lemon, Colby; Khazanov, George; Hecht, James; Evans, J. Scott; Kaeppler, Steve; Gabrielse, Christine

C1.2-0017-24 11:15 - 11:30

Stepwise development in high- and low-latitude geomagnetic perturbations and Pi1 and Pi2 pulsations associated with the three steps of auroral onset arc development at substorm onset
Talha, Madeeha; Miyashita, Yukinaga

C1.2-0018-24 11:30 - 12:00 (solicited)

What Processes are Defining the Ionospheric Conductivity and its Variability During Geomagnetic Disturbances?
Khazanov, George; Kang, Suk-Bin; Glocer, Alex; Fok, Mei-Ching

C1.2-0019-24 12:00 - 12:15

A case study of Pc1 waves observed in the polar cap associated to proton precipitation at subauroral latitudes
D'angelo, Giulia; Francia, Patrizia; de Lauretis, Marcello; Parmentier, Alexandra; Raita, Tero; Piersanti, Mirko

C1.2-0020-24 12:15 - 12:30

Non-local analysis of auroral fine structure formation and transition to a turbulent state
Sakaki, Tsuyoshi; Watanabe, Tomo-Hiko

Sat, Jul 20, 2024

C4.1 International Reference Ionosphere: Improvements, Validation, and Applications

Main Scientific Organizer: Bilitza, Dieter
Deputy Organizer: Kwak, Young-Sil

Irregularities in the Ionosphere

Chair: Xiong, Chao
Room: EC1-311

C4.1-0018-24 09:00 - 09:30 (solicited)

Sources and characteristics of electron density irregularities in the low-latitude F region ionosphere
Kil, Hyosub

C4.1-0019-24 09:30 - 09:45

Abnormal response of ionospheric irregularities in the East Pacific region during the great magnetic storm in April 2023
Shang, She-Ping; Shi, Jiankui; He, Maosheng; Cheng, Zhengwei; Wang, Guojun; Wang, Zheng

C4.1-0020-24 09:45 - 10:00

Ground Based Ionospheric Network for Earthquake Precursor in Thailand
Kenpankho, Prasert; Keokhumcheng, Thanapon; Pansong, Chollada; Nambut, Supawit; Pornsopin, Patinya

C4.1-0021-24 10:00 - 10:15

Detection of Ionospheric Anomalies Related to M6.0 Pre-Earthquake affecting Thailand using IRI TEC, IGS TEC and GPS TEC Data
Pansong, Chollada; Ruttanaburee, Sontaya; Kenpankho, Prasert

C4.1-0022-24 10:15 - 10:30

An update of the NET ionospheric model with integration of storm-time memory
Smirnov, Artem

Coffee Break

New Inputs for IRI

Chair: Krankowski, Andrzej
Room: EC1-311

C4.1-0023-24 11:00 - 11:30 (solicited)

New global model of the electron temperature for IRI: status and recent developments
Truhlik, Vladimir; Bilitza, Dieter; Pignalberi, Alessio; Triskova, Ludmila

C4.1-0024-24 11:30 - 11:45

Statistical Study on Plasma Velocities in Bottom-side Ionosphere Over Low Latitude Hainan Station: Digisonde Measurement
Wang, Guojun

C4.1-0025-24 11:45 - 12:00

On the use of SuperDARN Ground Backscatter Measurements for Ionospheric Propagation Model Validation: Initial Validation of the International Reference Ionosphere
Ruck, Joshua; Themens, David; Elvidge, Sean

C4.1-0026-24 12:00 - 12:15

GNSS atmospheric water vapor in Thailand
Nambut, Supawit; Ruttanaburee, Sontaya; Chaila, Sophon; Kenpankho, Prasert

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D1.5 Turbulence in the Heliosphere from the Solar Corona to the Very Local Interstellar Medium

Main Scientific Organizer: Fraternale, Federico

Room: CON-104

D1.5-0001-24 09:00 - 09:20 (solicited)

Turbulent Dissipation via Cyclotron Resonant Processes in the Solar Wind and Corona
Bowen, Trevor; Azari, Abigail; Bale, Stuart; Chandran, Benjamin; Chen, Christopher; Dudok De Wit, Thierry; Ervin, Tamar; Meyrand, Romain; Mallet, Alfred; Pulupa, Marc; Squire, Jonathan; Vasko, Ivan

D1.5-0002-24 09:20 - 09:35

Waves, structure and turbulence in the inner solar corona
Morton, Richard; Sharma, Rahul

D1.5-0003-24 09:35 - 09:50

Higher-Order Analysis of Three-Dimensional Anisotropy in Imbalanced Alfvenic Turbulence
Sioulas, Nikos; Shi, Chen; Velli, Marco; Bowen, Trevor; Mallet, Alfred; Sorriso-valvo, Luca; Huang, Zesen; Chandran, Benjamin; Martinović, Mihailo

D1.5-0004-24 09:50 - 10:05

Theoretical Analysis of the Polytropic Index and Temperature Anisotropy in the Solar Wind
Desta, Ephrem Tesfaye; Strauss, Du Toit; Engelbrecht, Nicholas Eugene

D1.5-0005-24 (WITHDRAWN) 10:05 - 10:20

Markovian Analysis of Solar Wind Turbulence: Exploring Kinetic Scale Dynamics in Space Plasma
Wójcik, Dariusz; Macek, Wieslaw M.

Coffee Break

Room: CON-104

D1.5-0006-24 11:00 - 11:20 (solicited)

Recent Progress in Modeling and Representation of Turbulence in the Global Inner-heliospheric Solar Wind
Chhiber, Rohit; Usmanov, Arcadi; Matthaeus, William; Wang, Yanwen; Roy, Sohom; Attie, Raphael; Pecora, Francesco; Thompson, Barbara; Goldstein, Melvyn

D1.5-0007-24 11:20 - 11:35

Anisotropy of Density Fluctuations in the Solar Wind at 1 au
Wang, Jiaming; Chhiber, Rohit; Roy, Sohom; Cuesta, Manuel; Pecora, Francesco; Yang, Yan; Matthaeus, William

D1.5-0008-24 11:35 - 11:50

Solar wind complexity from an analysis with Rank Ordered Multifractals
Echim, Marius; Munteanu, Costel; Teodorescu, Eliza

D1.5-0009-24 11:50 - 12:05

Evolving of turbulence in the heliosheath and very local interstellar medium as seen by Voyagers
Fraternale, Federico; Pogorelov, Nikolai; Mousavi, Ameneh; Roytershteyn, Vadim

D1.5-0010-24 12:05 - 12:20

Exploring Low Frequency Interplanetary Magnetic Field Spectra using MESSENGER Data
Pradata, Rayta; Wang, Jiaming; Roy, Sohom; Goodwill, Joshua; Pecora, Francesco; Chhiber, Rohit; Yang, Yan; Matthaeus, William

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D1.7 Science from Neutron Monitors, Muon Telescopes, and other Detectors of Atmospheric Showers from GeV Cosmic Rays

Main Scientific Organizer: Ruffolo, David
Deputy Organizer: Munakata, Kazuoki

Room: CON-101

D1.7-0012-24 11:00 - 11:15

Analysis of the first GLEs on the basis of historical records
Mishev, Alexander; Hayakawa, Hisashi; Koldobskiy, Sergey; Poluianov, Stepan; Usoskin, Ilya

D1.7-0013-24 11:15 - 11:30

Research on Extensive Air Showers at the high-altitude installation ADRON-M
Idrissova, Tynik; Sadykov, Turlan; Mukhamedshin, Rauf; Galkin, Vladimir; Aimuratov, Yerlan

D1.7-0014-24 11:30 - 11:45

HLEA and Thimon Neutron Monitors at the summit of Haleakala in Maui
Bindi, Veronica; Ryan, James M.; Nikonov, Nikolay; Consolandi, Cristina; Corti, Claudio; Wang, Siqi; Kuhlman, Andrew

D1.7-0015-24 11:45 - 12:00

Leveraging IoT Technology and Time Series Databases for Neutron Monitor data acquisition systems
García-Población, Óscar; Blanco, Juan Jose; Ayuso, Sindulfo; García-Tejedor, Juan Ignacio; Regadío, Alberto

D1.7-0016-24 12:00 - 12:15

Simulations of the Yield Functions of Semi-Leaded Neutron Monitor Latitude Surveys
Nuntiyakul, Waraporn; Seripienlert, Achara; Pagwhan, Audcharapon; Mangeard, Pierre-Simon; Khamphakdee, Sidarat; Ruffolo, David; Sáiz, Alejandro; Evenson, Paul; Jiang, Peng; Chuanraksasat, Pongpichit; Munakata, Kazuoki; Madsen, James; Soonthornthum, Boonrucksar; Komonjinda, Siramas

D1.7-0017-24 12:15 - 12:30

Monte Carlo Simulations of South Pole Neutron Monitor Counting Rate since 1964
Seripienlert, Achara; Pagwhan, Audcharapon; Nuntiyakul, Waraporn; Mangeard, Pierre-Simon; Evenson, Paul; Clem, John; Ruffolo, David; Sáiz, Alejandro; Seunarine, Surujhdeo

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D3.6 CubeSat and Small Satellite Technology Addressing Magnetospheric Challenges

Main Scientific Organizer: Lee, Jaejin
Deputy Organizer: Hwang, Kyoung-Joo

Room: CON-102

D3.6-0001-24 09:00 - 09:15 (solicited)

CIRBE Mission, Measurements from REPTile-2 onboard, and New Science Results
Li, Xinlin Team: CIRBE Team p. 449

D3.6-0002-24 (WITHDRAWN) 09:15 - 09:30 (solicited)

ICOVEX: A CubeSat mission to observe cold ion dynamics to understand propagation of magnetospheric energy to low altitudes
Ogasawara, Keiichi; Gilchrist, Brian; Kataria, Dhirendra; Lamarche, Leslie; Leon, Omar; Liemohn, Michael; Martinis, Carlos R.; Moldwin, Mark; Nishimura, Yukitoshi; Zesta, Eftyhia

D3.6-0003-24 09:30 - 09:45

Testing and evaluation of a vectorized Rubidium magnetometer developed for the Compact Spaceborne Magnetic Observatory (COSMO)
Chism, Carolina; Robert, Marshall; Aguilar - Nadalini, Aldo; Knappe, Svenja; Malaspina, David; Hughes, Jeramy; Ellmeier, Michaela; Cunningham, Conor; Wankmueller, Sebastian; Regmi, Siwani

D3.6-0004-24 09:45 - 10:00

3DCAM: A 4U, constellation-ready plasma spectrometer with an instantaneous hemispheric Field of View
Hénaff, Gwendal; Berthomier, Matthieu; Leblanc, Frédéric; Degret, Gabriel; Seran, Henry-Claude; Techer, Jean-Denis

D3.6-0005-24 10:00 - 10:15

A CubeSat Technology Demonstration of Generating an Artificial Magnetosphere
Higgins, Andrew; Larrouturou, Mathias Nicolas

D3.6-0006-24 10:15 - 10:30

The IMAP Student Collaboration 3UCubed CubeSat: Progress Towards the Flight Model Integration and Testing
Mehta, Sanjeev; Lugaz, Noé; Peticolas, Laura; Lessard, Marc; Bartolone, Lindsay; Alfred, Marcus Team: The 3UCubed Team p. 459

Coffee Break

Room: CON-102

D3.6-0007-24 11:00 - 11:15 (solicited)

Using Cubesats for Understanding how magnetospheric energy input impacts Earth's upper atmosphere
Zesta, Eftyhia; Samara, Marilia; Khazanov, George; Connor, Hyunju; Hwang, Kyoung-Joo; Earle, Greg; Davidson, Ryan; Paschalidis, Nikolaos; Collinson, Glyn

D3.6-0008-24 11:15 - 11:30 (solicited)

Remote sensing of Electron Precipitation Mechanisms with ELFIN
Tsai, Ethan; Angelopoulos, Vassilis; Artemiev, Anton; Zhang, Xiaojia; Shen, Yangyang; An, Xin; Wilkins, Colin

D3.6-0009-24 11:30 - 11:45

The Compact Spaceborne Magnetic Observatory: Precise measurements of the Earth's magnetic field from a 6U CubeSat platform
Robert, Marshall; Knappe, Svenja; Malaspina, David; Hughes, Jeramy; Chism, Carolina; Ellmeier, Michaela; Regmi, Siwani; Chandran, Amal; Cunningham, Conor; Aguilar - Nadalini, Aldo; Wankmueller, Sebastian

D3.6-0010-24 11:45 - 12:00

Design and Development of the Atmospheric Effects of Precipitation through Energetic X-rays (AEPEX) CubeSat mission
Robert, Marshall; Chandran, Amal; Regmi, Siwani; Berland, Grant; Boyajian, Spencer; Buescher, Joseph; Spence, Harlan; Cully, Christopher; McCarthy, Michael; Woods, Thomas; Kohnert, Rick

D3.6-0011-24 12:00 - 12:15

ReTiMo: A CubeSat Mission with novel sensors for the Real Time Monitoring of Radiation Effects on Spacecraft Electronics
Sarris, Theodore; Daglis, Ioannis; Kottaras, George; Sandberg, Ingmar; Daglis, Ioannis A.; Pitchford, Dave; Hajdas, Wojtek; Ryden, Keith A; O'brien, Paul; Tourgaidis, Stelios; Papathanasiou, Angelos; Balasis, Georgios; Katsavrias, Christos

D3.6-0012-24 12:15 - 12:30 (solicited)

SNIPE Mission: Formation Flying Nano-satellites for Small Scale Space Plasma Research
Lee, Jaejin; Park, Jaeheung; Sohn, Jongdae; Hwang, Junga; Yang, Tae-Yong

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D3.8 Dayside Magnetosphere Interactions

Main Scientific Organizer: Zong, Qiugang
Deputy Organizer: Lee, Dong-Hun

Dayside Magnetosphere Interactions(1)

Chair: Liu, Wenlong
Room: CON-103

D3.8-0001-24 09:00 - 09:20 (solicited)

About the Normal Direction of Interplanetary Discontinuities
Lee, Sun

D3.8-0002-24 09:20 - 09:35

The fluctuations in the foreshock under radial IMF conditions
Pi, Gilbert; Nemecek, Zdenek; Safrankova, Jana

D3.8-0003-24 09:35 - 09:50

Magnetic Local Time and Interplanetary Magnetic Field By Variation of Cusp Location
Anderson, Phillip; Anderson, Phillip C.

D3.8-0004-24 09:50 - 10:05

Plasmaspheric Plumes Near the Dayside Magnetopause Observed by the Magnetospheric Multiscale (MMS) Mission
Ferradas, Cristian; Fok, Mei-Ching; Kang, Suk-Bin; Huba, Joseph D.; Glocer, Alex

D3.8-0005-24 10:05 - 10:20

Shock induced strong substorms and super substorms: Preconditions and associated oxygen ion dynamics
Zong, Qiugang

Coffee Break

Dayside Magnetosphere Interactions

Chair: Kim, Eun-Hwa
Room: CON-103

D3.8-0006-24 11:00 - 11:15
Properties of Small-scale Magnetic Flux Ropes (SMFRs) in the near-Earth upstream solar wind
Shin, Youra; Kim, Hyomin; Farooki, Hameedullah; Wang, Haimin; Choi, Kyung-Eun

D3.8-0007-24 11:15 - 11:30
Near-equatorial resonator for ion-ion hybrid modes in the magnetosphere: a Van Allen Probe case study of Pc1 pearl pulsations
Mikhailova, Olga; Mager, Pavel; Klimushkin, Dmitri

D3.8-0008-24 11:30 - 11:45
Interhemispheric Propagation of EMIC waves Generated at High Latitude in the Dayside Magnetosphere
Kim, Eun-Hwa; Johnson, Jay; Shiraiwa, Syun'ichi; Kim, Khan-Hyuk; O'ffill, Carson; Homan, Jonathan; Bertelli, Nicola; Vines, Sarah K.

D3.8-0009-24 11:45 - 12:00
Simultaneous observation of proton-generated Alfven wave and electron-generated compressional wave in dayside magnetosphere
Smotrova, Ekaterina; Mikhailova, Olga; Mager, Pavel; Klimushkin, Dmitri

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E1.1 Origin of Cosmic Rays

Main Scientific Organizer: Seo, Eun-Suk
Deputy Organizer: Moskalenko, Igor

II. Future instrumentation: multi-messenger experiments - antimatter, cosmic rays, gamma rays

Chair: Mohanty, Pravata
Room: CON-205

E1.1-0078-24 09:00 - 09:20 (solicited)
The GRAMS Project: Gamma-Ray and AntiMatter Survey
Aramaki, Tsuguo

E1.1-0079-24 09:20 - 09:40 (solicited)
Technological Advancements for Direct Antimatter Detection in Future Space Missions
Iuppa, Roberto

E1.1-0080-24 09:40 - 10:00
Moonray: a cosmic-ray observatory on the Moon
Marrocchesi, Pier Simone

E1.1-0081-24 10:00 - 10:20 (solicited)
Advancing Cosmic Ray Research: The Capabilities of the Cherenkov Telescope Array Observatory
Saito, Takayuki

Coffee Break

III. Future instrumentation: multi-messenger experiments - HERD, HERO, and UHE neutrino detectors

Chair: Kang, Donghwa
Room: CON-205

E1.1-0082-24 11:00 - 11:20 (solicited)
A landmark experiment onboard China Space Station: the High Energy cosmic-Radiation Detection facility
Dong, Yongwei Team: HERD p. 451

E1.1-0083-24 11:20 - 11:40 (solicited)
Discovering ultrahigh energy neutrinos with PUEO
Abarr, Quincy Team: PUEO Collaboration p. 457

E1.1-0084-24 11:40 - 11:55
Progress of the Giant Radio Array for Neutrino Detection (GRAND) Project
Zhang, Yi Team: GRAND p. 451

E1.1-0085-24 11:55 - 12:10
Development of an analysis method for neutrino-induced air showers with the Telescope Array surface detectors
Takahashi, Kaoru

E1.1-0086-24 12:10 - 12:25
The high-energy ray observatory prototype beam tests at SPS CERN.
Karatash, Khussein; Belocopitova, Ksenia; Tkachev, Leonid; Sholtan, Yeldos

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E1.4 Spectral Mapping Surveys of the Universe

Main Scientific Organizer: Jeong, Woong-Seob
Deputy Organizer: Im, Myungshin

Spectral Mapping Surveys

Chair: Lee, Bomee
Room: CON-201

E1.4-0001-24 09:00 - 09:30
The Euclid mission and the quest for dark energy
Bernardeau, Francis

E1.4-0002-24 09:30 - 10:00
SPHEREx Project and Korean Contributions
Jeong, Woong-Seob Team: SPHEREx Team p. 458

E1.4-0003-24 10:00 - 10:30
Nox: All-Sky Far-Ultraviolet Background Mapping with a 12U CubeSat Mission
Chung, Haeun; Vargas, Carlos; Hamden, Erika

Coffee Break

Synergies with Spectral Mapping Surveys

Chair: Jeong, Woong-Seob
Room: CON-201

E1.4-0004-24 11:00 - 11:20
Euclid: Mapping the Extragalactic Sky with Deep Imaging and Grism Spectroscopy
Masters, Daniel

E1.4-0005-24 11:20 - 11:40
Redshift estimation in the era of Wide-area surveys: SPHEREx
Lee, Bomee

E1.4-0006-24 11:40 - 12:10
7-Dimensional Sky Survey (7DS)
Im, Myungshin Team: 7DS team p. 446

E1.4-0007-24 12:10 - 12:30
An Atlas of Ionized Overdensities around Lyman-alpha Emitters in the GOODS fields revealed by the JWST FRESCO Survey
Leonova, Ecaterina; Oesch, Pascal; Naidu, Rohan Team: FRESCO p. 450

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E1.5 Illuminating Gravitational Waves and their Environments

Main Scientific Organizer: Troja, Eleonora
Deputy Organizer: Im, Myungshin

The next decade of multi-messenger astrophysics

Chair: Sakamoto, Takanori
Room: CON-108

E1.5-0026-24 09:00 - 09:20 (solicited)
High-z gamma-ray bursts for unraveling the dark ages mission (HiZ-GUNDAM)
Yonetoku, Daisuke; Doi, Akihiro; Matsuhara, Hideo; Sakamoto, Takanori; Tsumura, Kohji; Mihara, Tatehiro; Arimoto, Makoto; Gunji, Shuichi; Sawano, Tatsuya; Serino, Motoko; Tomida, Hiroshi; Hiraga, Junko; Maeda, Yoshitomo; Mitsuishi, Ikuyuki; Yatsu, Yoichi; Matsuura, Shuji; Akitaya, Hiroshi; Ita, Yoshifusa; Kawabata, Koji; Sano, Kei; Tanaka, Masaomi; Noda, Hirofumi; Motohara, Kentaro; Yanagisawa, Kenshi; Yoshida, Michitoshi; Wada, Takehiko; Shinozaki, Keisuke; Harikane, Yuichi; Kimura, Mariko; Miyasaka, Akihiro; Jikuya, Ichiro; Kono, Yusuke; Bando, Nobutaka

E1.5-0027-24 09:20 - 09:35
QUVIK: Quick Ultra Violet Kilonova surveyor
Werner, Norbert; Ripa, Jakub; Munz, Filip; Daniel, Vladimir

E1.5-0028-24 09:35 - 09:50
7-Dimensional Telescope for Multi-Messenger Astronomy
Im, Myungshin Team: GECKO/7DT Team p. 450

E1.5-0029-24 09:50 - 10:05
Identifying Optical Counterparts of Gravitational-Wave Sources with a 7-Dimensional Telescope in the O4b
Paek, Gregory; Im, Myungshin

E1.5-0030-24 10:05 - 10:20
Search for electromagnetic counterparts of gravitational wave sources with CALET Gamma-ray Burst Monitor
Kawakubo, Yuta Team: CALET collaboration p. 448

Coffee Break

The next decade of multi-messenger astrophysics: roundtable discussion

Chair: Troja, Eleonora
Room: CON-108

E1.5-0031-24 11:00 - 11:15
Gravitational Wave vs Short GRB : events rate by Scenario Machine and optical counterparts by MASTER
Lipunov, Vladimir Team: MASTER p. 454

E1.5-0032-24 11:15 - 11:30
The Scientific Instruments of the HERMES Pathfinder Nanosatellite Constellation: Architecture, Performances, and Prospects
Dilillo, Giuseppe; Baroni, Giulia; Campana, Riccardo; Della Casa, Giovanni; Evangelista, Yuri; Guzman, Alejandro; Hedderman, Paul; Marchesini, Ezequiel; Sanna, Andrea; Fiore, Fabrizio

E1.5-0033-24 11:30 - 11:45
Demonstration of GRB Alert System using the Commercial Satellite Network by ARICA-2 and Beyond
Sakamoto, Takanori; Serino, Motoko; Tsuji, Yuki; Ushimaru, Tomoya; Urakabe, Nao; Kato, Hiroki; Asano, Keiju; Iwanaga, Chisaki; Takagi, Yoshihiro; Hiroshi, Kazumasa; Enoto, Teruaki

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E1.7 Black Hole Astrophysics: Theory and Simulations Confront Observations

Main Scientific Organizer: Chakrabarti, Sandip Kumar
Deputy Organizer: Laurent, Philippe

Supermassive Black Holes

Chair: Russell, David
Room: CON-107

E1.7-0032-24 09:00 - 09:20 (solicited)
Multi-wavelength probe of accreting black holes with AstroSat
Dewangan, Gulab

E1.7-0033-24 09:20 - 09:40
Synthetic spectra from PIC simulations of relativistic plasma jets with toroidal magnetic field
Dutan, Ioana; Nishikawa, Kenichi; Meli, Athina; Kohn, Christoph; Mizuno, Yosuke; Kobzar, Oleh; Macdonald, Nicholas; Gomez, Jose L.; Hirotani, Kouichi

E1.7-0034-24 09:40 - 10:00
Survey of Bare Active Galactic Nuclei in the Local Universe (z 0.2): On the Origin of Soft Excess
Nandi, Prantik; Chatterjee, Arka; Chakrabarti, Sandip Kumar; Jana, Arghajit; Naik, Sachindra; Chang, Hsiang-Kuang; Safi-Harb, Samar; Heyl, Jeremy

E1.7-0035-24 10:00 - 10:15
INTEGRAL OBSERVATIONS OF POLARIZATION FROM TRANSIENT BLACK-HOLE SYSTEMS.
Laurent, Philippe; Rodriguez, Jerome; Cangémi, Floriane; Bouchet, Tristan

E1.7-0036-24 10:15 - 10:30
Measuring Supermassive Black Hole Masses and Resolving the Broad Line Region with VLTI/GRAVITY
Santos, Daryl Joe Team: GRAVITY Collaboration p. 451

Coffee Break

AGNS, QPOS

Chair: Russell, David
Room: CON-107

E1.7-0037-24 (WITHDRAWN) 11:00 - 11:30 (solicited)
Characterising the ensemble optical variability of AGN
Paolillo, Maurizio; Petrecca, Vincenzo; de Cicco, Demetra; Papadakis, Iossif; Bauer, Franz E.

E1.7-0038-24 11:30 - 11:45
Feeding and Feedback of Low-luminosity AGNs
Li, Zhiyuan

E1.7-0039-24 11:45 - 12:00
Type-B and type-A quasi-periodic oscillations in black hole X-ray binaries
Zhang, Liang; Mendez, Mariano; Altamirano, Diego; García, Federico; Yang, Zixu

E1.7-0040-24 12:00 - 12:15
The Origin of Hard/Soft lag in Galactic black hole binaries: An implication on Accretion Disk Dynamics
Dutta, Broja G.; Chakrabarti, Sandip Kumar

E1.7-0041-24 (WITHDRAWN) 12:15 - 12:30
Oscillating shocks in the transonic, viscous, variable adiabatic index, accretion flows around black holes.
Debnath, Sanjit; Chattopadhyay, Indranil; Joshi, Raj Kishor

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E1.13 Observations and Prospects for X-ray Polarimetry

Main Scientific Organizer: Marshall, Herman
Deputy Organizer: Baumgartner, Wayne

Blazars

Chair: Karwin, Chris
Room: CON-109

E1.13-0038-24 09:00 - 09:30 (solicited)
New Insights into Relativistic Jets of AGN with X-ray Polarimetry: A Review of IXPE Discoveries on Blazars
Kim, Dawoon E. Team: IXPE Science Team p. 453

E1.13-0039-24 09:30 - 09:45
X-ray and multiwavelength polarization of Mrk 501 since 2022
Chen, Chien-Ting

E1.13-0040-24 09:45 - 10:00
Observations of Low and Intermediate Spectral Peak Blazars with the Imaging X-ray Polarimetry Explorer
Marshall, Herman Team: IXPE collaboration p. 453

E1.13-0041-24 10:00 - 10:15
Probing the geometry of BL Lacs jets through multifrequency polarimetry
Sobacchi, Emanuele; Tavecchio, Fabrizio

E1.13-0042-24 (WITHDRAWN) 10:15 - 10:30
Modeling the X-Ray Polarization from Jet Hot Spots
Coppi, Paolo; Li, Hui; Tavecchio, Fabrizio

Coffee Break

Blazars, Hard X-rays, and Gamma Rays

Chair: Kim, Dawoon E.
Room: CON-109

E1.13-0043-24 11:00 - 11:15
Understanding HSP BL Lacs polarization through MHD-PIC simulations
Sciaccaluga, Alberto; Tavecchio, Fabrizio; Bodo, Gianluigi; Costa, Agnese; Coppi, Paolo

E1.13-0044-24 11:15 - 11:45 (solicited)
Soft Gamma-Ray Polarimetry with the Compton Spectrometer and Imager
Karwin, Chris; Tomsick, John

E1.13-0045-24 11:45 - 12:00
CZT spectro-polarimeter with 3D spatial resolution for hard X and soft gamma-ray astronomy
Del Sordo, Stefano; Caroli, Ezio

E1.13-0046-24 12:00 - 12:15
Optical and X-ray polarization study of gamma-ray binary
Takata, Jumpei

E1.13-0047-24 12:15 - 12:30
The CUbesat Solar Polarimeter (CUSP) mission overview
de Angelis, Nicolas Team: CUSP p. 450

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E1.15 To Flow in or to Flow out, That is the Question of Black-hole X-ray Binaries

Main Scientific Organizer: Kylafis, Nikolaos
Deputy Organizer: Zdziarski, Andrzej

Room: CON-202

E1.15-0016-24 09:00 - 09:30 (solicited)
What we have learned about the corona from IXPE
Ingram, Adam

E1.15-0017-24 09:30 - 09:50
Magnetically driven ultra-fast outflows (UFOs) in galactic black hole X-ray binaries
Ratheesh, Ajay; Chakraborty, Sudip; Fukumura, Keigo; Tombesi, Francesco

E1.15-0018-24 09:50 - 10:10
A spectral and timing study of MAXI J1820+070 during it's outburst
Solomons, Kyle; Chandra, Sunil; Monageng, Itumeleng

E1.15-0019-24 10:10 - 10:30
X-ray Spectral State Transitions and Non-stationary Accretion Regimes in X-ray Binaries
Yu, Wenfei

Coffee Break

Room: CON-202

E1.15-0020-24 11:00 - 11:20
Broadband X-ray spectral-timing: harnessing the power of simultaneous NICER and HXMT observations
Bollemeijer, Niek; Uttley, Phil

E1.15-0021-24 11:20 - 11:40
A physical model for radio-X-ray correlation in X-ray binaries
Cao, Xinwu

E1.15-0022-24 11:40 - 12:00
Critical Role of Comptonization in the Low Frequency QPO of MAXI J1820+070
Gao, Chenxu; Yan, Zhen; Yu, Wenfei

E1.15-0023-24 12:00 - 12:15
Supercritical accretion onto compact objects with massive disk winds
Feng, Hua

E1.15-0024-24 12:15 - 12:30
Outburst of SLX 1746–331 observed by Insight-HXMT and NICER
Zhang, Shu

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E2.6 Developments and Applications of the Solar Magnetic Field Modelling

Main Scientific Organizer: Zhu, Xiaoshuai
Deputy Organizer: Zhao, Jie

Magnetic field modeling: Applications

Chair: Zhu, Xiaoshuai
Room: CON-110

E2.6-0017-24 11:00 - 11:15
Disentangling sunspot penumbra formation with magnetic field extrapolations
Chifu, Iulia; Bello Gonzalez, Nazaret; Schlichenmaier, Rolf; Lindner, Philip; Zhu, Xiaosuai

E2.6-0018-24 11:15 - 11:30
Comparison of line-of-sight magnetic field observed by ASO-S/FMG, SDO/HMI and HSOS/SMAT
Xu, Haiqing

E2.6-0019-24 11:30 - 11:45
First insights into the applicability and importance of different 3D magnetic field extrapolation approaches for studying the pre-eruptive conditions of solar active regions
Korsos, Marianna Brigitta

E2.6-0020-24 11:45 - 12:00
A Fundamental Mechanism of Solar Eruption Initiation in a Multipolar Magnetic Field
Bian, Xinkai; Jiang, Chaowei; Feng, Xueshang; Zuo, Pingbing; Wang, Yi

E2.6-0021-24 12:00 - 12:15
Determination of solar flare positions from magnetic field configurations obtained by data driven MHD simulation above the active region
Podgorny, Alexander; Podgorny, Igor

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E2.7 Waves and Flows in Solar Coronal Active Regions, from Heating to Coronal Seismology

Main Scientific Organizer: Ofman, Leon
Deputy Organizer: Lee, Dong-Hun

Room: CON-106

E2.7-0001-24 09:00 - 09:20 (solicited)
Decayless kink oscillations of solar coronal loops as a self-oscillatory process
Nakariakov, Valery

E2.7-0002-24 09:20 - 09:40 (solicited)
Symbiosis of WAves and Reconnection (SWAR): New Physical Insights into Understanding Coronal Heating and Plasma Dynamics
Srivastava, Abhishek K.; Priest, Eric; Ofman, Leon; Mondal, Sripan; Kwon, Ryun Young; Pontin, David; Murawski, Kris; Mishra, Sudheer; Yuan, Ding; Asai, Ayumi

E2.7-0003-24 09:40 - 10:00 (solicited)
Advances on the Study of Coronal Extreme Ultraviolet Waves
Shen, Yuandeng

E2.7-0004-24 10:00 - 10:15
Large-scale EUV Waves in the Solar Corona and Their Diagnostic Implications
Jin, Meng; Liu, Wei; Wang, Tongjiang; Ofman, Leon; Sun, Xudong; Zhang, Richard

E2.7-0005-24 (WITHDRAWN) 10:15 - 10:30
Evidence for the Dispersiveness of Slow Magnetoacoustic Waves in Coronal Fan Loops
Zhao, Junwei; Wang, Tongjiang; Chen, Ruizhu

Coffee Break

Room: CON-106

E2.7-0006-24 11:00 - 11:20 (solicited)
On Alfven pulses and waves
von Fay-Siebenburgen, Robert

E2.7-0007-24 11:20 - 11:40 (solicited)
The current state of wave-based coronal heating mechanisms
van Doorsselaere, Tom

E2.7-0008-24 11:40 - 11:55
Dependence of Photospheric Horizontal-Speeds of Magnetic Flux-Parcels in and around Active Regions on the Strength of their Magnetic Field
Venkataramanasastry, Aparna; Tiwari, Sanjiv Kumar; Moore, Ronald; Panesar, Navdeep Kaur; De Pontieu, Bart; Welsch, Brian

E2.7-0009-24 11:55 - 12:15 (solicited)

Recent observations of waves and flows in flaring coronal loops by SDO/AIA - what can we learn?
Wang, Tongjiang; Ofman, Leon; Liu, Wei; Sun, Xudong; Jin, Meng; Bradshaw, Stephen

E2.7-0010-24 12:15 - 12:30

Modeling the Excitation and Propagation of Quasi-Periodic Fast Magnetosonic Waves in Realistic Coronal Active Region Magnetic Structures
Ofman, Leon; Wang, Tongjiang; Jin, Meng; Liu, Wei; Sun, Xudong

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F3.4 Interstellar Organic Molecules in the Age of JWST and ALMA

Main Scientific Organizer: Garrod, Robin
Deputy Organizer: Herbst, Eric

Theory/Computational

Chair: Ligterink, Niels
Room: EC1-213

F3.4-0026-24 09:00 - 09:30

Surface chemical properties of interstellar grains. Insights to the Fe single-atom and nano-cluster catalysis in space from quantum chemical simulations
Pareras, Gerard; Rimola, Albert Team: Quantumgrain p. 457

F3.4-0027-24 09:30 - 09:50

Assessing realistic binding energies of essential interstellar species with a hierarchy of amorphous solid water clusters
Roy, Arghyadeb; Gorai, Prasanta; Sil, Milan; das, Ankan

F3.4-0028-24 09:50 - 10:10

Computational investigation of carbon dioxide formation on interstellar water ice
Kakkar, Harjasnoor; Rimola, Albert

F3.4-0029-24 10:10 - 10:30

Exploring Nondiffusive Mechanisms for the Formation of Acetaldehyde, Methylformate, and Dimethyl Ether: Insights from Computational Studies.
Martínez-Bachs, Berta; Rimola, Albert

Coffee Break

Theory/Computational

Chair: Garrod, Robin
Room: EC1-213

F3.4-0030-24 11:00 - 11:20

Carbon condensation on ices: Impact in the formation of O- and N- bearing molecules
Molpeceres de Diego, Germán; Tsuge, Masashi; Furuya, Kenji; Aikawa, Yuri; Watanabe, Naoki

F3.4-0031-24 11:20 - 11:40

Stability of glycine interacting with space ionizing radiations : what theoretical chemistry can tells us
Talbi, Dahbia; Christodoulou, Stella; Yused-Buey, Maysa; Mineva, Tzonka; Rapacioli, Mathias

F3.4-0032-24 11:40 - 12:00

Astrochemical modeling of planetary nebula NGC 7027 for HeH+ and CH+
Sil, Milan; Faure, Alexandre; Lique, François; Hily-Blant, Pierre; Čurı´k, Roman; Loreau, Jérôme

F3.4-0033-24 12:00 - 12:15

Quantum mechanical investigation on the formation of silicates building blocks on interstellar ice mantles
Gelli, Andreha; Enrique-Romero, Joan; Ceccarelli, Cecilia; Ugliengo, Piero; Balucani, Nadia; Rimola, Albert

F3.4-0034-24 12:15 - 12:30

Exploring Cosmic Ice Grains: Revealing Secrets of S-Bearing Species Using Calculated Binding Energies, Frequency, and Diffusion Barriers Distributions
Bariosco, Vittorio; Rimola, Albert; Ugliengo, Piero; Ceccarelli, Cecilia; Balucani, Nadia

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H0.5 Advanced Methods for Geodes, Metrology, Navigation and Fundamental Physics

Main Scientific Organizer: Peron, Roberto
Deputy Organizer: Müller, Jürgen

Room: EC1-216

H0.5-0010-24 09:00 - 09:30 (solicited)

Relativistic corrections and special applications of GNSS systems
Vespe, Francesco

H0.5-0011-24 09:30 - 09:50

An accelerometer for the Galileo 2nd generation constellation: the AGES project
Lucente, Marco; Magnafico, Carmelo; Magnafico, Carmelo; Santoli, Francesco; Fiorenza, Emiliano; Lefevre, Carlo; Loffredo, Pasqualino; Lucchesi, David; Peron, Roberto; Visco, Massimo

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ESA'S MOONLIGHT LUNAR LASER RETROREFLECTOR FOR NASA'S CP-11 2024 MISSION
Dell'Agnello, Simone

H0.5-0013-24 10:10 - 10:30

Testing Local Lorentz Invariance with the LAGEOS II satellite
Peron, Roberto Team: SaToR-G-2024 p. 457

Coffee Break

Room: EC1-216

H0.5-0014-24 11:00 - 11:20

METRIC: a mission concept for upper atmosphere mapping, fundamental physics and geodesy
Peron, Roberto Team: METRIC-2024 p. 454

H0.5-0015-24 11:20 - 11:40

The problem of the Global Astrometric Sphere Reconstruction in Astrometry

Vecchiato, Alberto; Gai, Mario; Butkevich, Alexey; Bucciarelli, Beatrice; Lattanzi, Mario; Busonero, Deborah; Riva, Alberto

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B1.1-0016-24, p. 89; APEX team

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H0.6-0004-24, p. 226; Bose-Einstein Condensate - Cold Atom Laboratory

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E1.1-0084-24, p. 327; The GRAND collaboration

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E1.7-0036-24, p. 328; A. Amorim, G. Bourdarot, W. Brandner, Y. Cao, Y. Clénet, R. Davies, P. T. de Zeeuw, J. Dexter, A. Drescher, A. Eckart, F. Eisenhauer, M. Fabricius, H. Feuchtgruber, N. M. Förster Schreiber, P. J. V. Garcia, R. Genzel, S. Gillessen, D. Gratadour, S. Hönig, M. Kishimoto, S. Lacour, D. Lutz, F. Millour, H. Netzer, T. Ott, T. Paumard, K. Perraut, G. Perrin, B. M. Peterson, P. O. Petrucci, O. Pfuhl, M. A. Prieto, S. Rabien, D. Rouan, D. J. D. Santos, J. Shangguan, T. Shimizu, A. Sternber, C. Straubmeier, E. Sturm, L. J. Tacconi, K. R. W. Tristram, F. Widmann, and J. Woillez

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E1.12-0035-24, p. 270; Hua Feng, Ming Zeng, Binbin Zhang, Lin Lin, Xiaofan Pan, Chenyu Wang, Zirui Yang, Longhao Li, Yihan Yin, Songyu Shen

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E1.1-0049-24, p. 210; M. de Naurois

Team: **HAWC**
E1.1-0050-24, p. 266; HAWC collaboration

Team: **Hayabusa-2 Project Team**
PPP.2-0013-24, p. 229; Hajime Yano Yuya Mimasu Makoto Yoshikawa Yuichi Tsuda

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E1.1-0093-24, p. 267; O. Adriani , F. Alemanno , C. Altomare , G. Ambrosi

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C0.2-0001-24, p. 92; Ailan Lan, Xiang Deng, Jingye, Yan

Team: **high redshift quasars**
E1.11-0032-24, p. 215; Ran Wang, Fuxiang Xu

Team: **High-frequency observations of water vapor, isotope, ice clouds and radiation budget by small satellite constellation Team (T1) AND TeraHertz ice cloud/water vapor micro satellite mission Team (T2)**
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E1.1-0025-24, p. 121; Dennis Soldin

Team: **IceCube**
E1.1-0052-24, p. 266; For the IceCube collaboration

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C1.1-0007-24, p. 199; d

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F4.2-0007-24, p. 223; Akira Higashibata, Toko Hashizume, Nahoko Higashitani, Surabhi Sudevan, Masumi Umehara, Ahmad Aisha Abu, Kasumi Muto, Je-Hyun Moon, Alfredo V. Alcantara Jr., Ban-seok Kim, Jong-In Hwang, Rebecca A Ellwood, Colleen S Dean, Mizanur Rahman, Siva A Vanapalli, Timothy Etheridge, Jin I. Lee, Nathaniel J. Szewczyk, and Atsushi Higashitani

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PRBEM.1-0003-24, p. 230; IRBEM contributors

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PSW.1-0001-24, p. 321; NASA Johnson SRAG, NASA Goddard CCMC, NASA Goddard M2M

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E1.1-0027-24, p. 121; S. Aggarwal, Y. Amare, D. Angelaszek, Y. C. Chen, G. H. Choi, M. Copley, L. Derome, Z. M. Dorris, L. Eraud, C. Falana, A. Gerrety, J. H. Han, H. G. Huh, A. Haque, Y. S. Hwang, H. J. Hyun, H. B. Jeon, J. A. Jeon, S. Jeong, S. C. Kang, H. J. Kim, K. C. Kim, M. H. Kim, H. Y. Lee, J. Lee, M. H. Lee, O. Lehrfeld, L. Lu, J. P. Lundquist, L. Lutz, S. Maricic, A. Menchaca-Rocha, O. Ofoha, H. Park, I. H. Park, J. M. Park, N. Picot-Clemente, E. S. Seo, R. Takeishi, P. Walpole, R. P. Weinmann, J. Wu, Z. Yin, Y. S. Yoon and H. G. Zhang

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E1.1-0088-24, p. 266; S. Aggarwal, Y. Amare, D. Angelaszek, Y. C. Chen, G. H. Choi, M. Copley, L. Derome, Z. M. Dorris, L. Eraud, C. Falana, A. Gerrety, J. H. Han, H. G. Huh, A. Haque, Y. S. Hwang, H. J. Hyun, H. B. Jeon, J. A. Jeon, S. Jeong, S. C. Kang, H. J. Kim, K. C. Kim, M. H. Kim, H. Y. Lee, J. Lee, M. H. Lee, M. J. Lee, O. Lehrfeld, L. Lu, J. P. Lundquist, L. Lutz, A. Menchaca-Rocha, O. Ofoha, H. Park, I. H. Park, J. M. Park, N. Picot-Clemente, E. S. Seo, R. Takeishi, P. Walpole, R. P. Weinmann, J. Wu, Z. Yin, Y. S. Yoon and H. G. Zhang

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PSW.5-0007-24, p. 190; Robert Robinson Chigomezyo M. Ngwira Katherine Garcia Sage Maria Kuznetsova Mostafa El Alaoui David Boteler Jennifer Gannon James Weygand Viacheslav Merkin Katariina Nykyri Burcu Kosar Daniel Welling Jonathan Eastwood Joseph Eggington Michael Heyns Norah Kaggwa Kwagala Dibyendu Sur Jesper Gjerloev

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E1.13-0040-24, p. 329; other authors

Team: **IXPE Science Team**
E1.13-0038-24, p. 329; .

Team: **Janus Mission Science and Development Team**
B1.1-0017-24, p. 89; D.J. Scheeres, J.W. McMahon, E.B. Bierhaus, L.A.M. Benner, C.J. Benson, C.M. Hartzell, P. Hayne, R. Jedicke, L. Le Corre, A. Meyer, S. Naidu, P. Pravec, M. Ravine, K. Sorli, C. McCaa, E. Kloska, D. Brack, and J. Shoer

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E1.1-0068-24, p. 307; .

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E1.1-0067-24, p. 307; S. Abe, J.H. Adams Jr., D. Allard, P. Alldredge, R. Aloisio, L. Anchordoqui, A. Anzalone, E. Arnone, M. Bagheri, B. Baret, D. Barghini, M. Battisti, R. Bellotti, A.A. Belov, M. Bertaina, P.F. Bertone, M. Bianciotto, F. Bisconti, C. Blaksley, S. Blin-Bondil, K. Bolmgren, S. Briz, J. Burton, F. Cafagna, G. Cambié, D. Campana, F. Capel, R. Caruso, M. Casolino, C. Cassardo, A. Castellina, K. Černý, M.J. Christl, R. Colalillo, L. Conti, G. Cotto, H.J. Crawford, R. Cremonini, A. Creusot, A. Cummings, A. de Castro Gónzalez, C. de la Taille, R. Diesing, P. Dinaucourt, A. Di Nola, T. Ebisuzaki, J. Eser, F. Fenu, S. Ferrarese, G. Filippatos, W.W. Finch, F. Flaminio, C. Fornaro, D. Fuehne, C. Fuglesang, M. Fukushima, S. Gadamsetty, D. Gardiol, G.K. Garipov, E. Gazda, A. Golzio, F. Guarino, C. Guépin, A. Haungs, T. Heibges, F. Isgrò, E.G. Judd, F. Kajino, I. Kaneko, S.-W. Kim, P.A. Klimov, J.F. Krizmanic, V. Kungel, E. Kuznetsov, F. López Martínez, D. Mandát, M. Manfrin, A. Marcelli, L. Marcelli, W. Marszał, J.N. Matthews, M. Mese, S.S. Meyer, J. Mimouni, H. Miyamoto, Y. Mizumoto, A. Monaco, S. Nagataki, J.M. Nachtman, D. Naumov, A. Neronov, T. Nonaka, T. Ogawa, S. Ogio, H. Ohmori, A.V. Olinto, Y. Onel, G. Osteria, A.N. Otte, A. Pagliaro, B. Panico, E. Parizot, I.H. Park, T. Paul, M. Pech, F. Perfetto, P. Picozza, L.W. Piotrowski, Z. Plebaniak, J. Posligua, M. Potts, R. Prevete, G. Prévôt, M. Przybylak, E. Reali, P. Reardon, M.H. Reno, M. Ricci, O.F. Romero Matamala, G. Romoli, H. Sagawa, N. Sakaki, O.A. Saprykin, F. Sarazin, M. Sato, P. Schovánek, V. Scotti, S. Selmane, S.A. Sharakin, K. Shinozaki, S. Stepanoff, J.F. Soriano, J. Szabelski, N. Tajima, T. Tajima, Y. Takahashi, M. Takeda, Y. Takizawa, S.B. Thomas, L.G. Tkachev, T. Tomida, S. Toscano, M. Traïche, D. Trofimov, K. Tsuno, P. Vallania, L. Valore, T.M. Venters, C. Vigorito, M. Vrabel, S. Wada, J. Watts Jr., L. Wiencke, D. Winn, H. Wistrand, I.V. Yashin, R. Young, M.Yu. Zotov

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E1.1-0069-24, p. 307; .

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E1.1-0070-24, p. 307; .

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B1.1-0043-24, p. 137; A. Martin, I. Wong, D. Prialnik, J.K. Steckloff, Y.R. Fernandez

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B5.1-0003-24, p. 116; B5.1-0005-24, p. 116; Origins, Interior, Atmosphere, Magnetosphere, Satellites, Rings

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A3.1-0014-24, p. 239; Yunus Yardım, Ali Berkant Eker, Ahmet İrfan Özaydın, Mustafa Fenerci, Hasan Kaya

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F4.1-0014-24, p. 109; Alessandro Mariani, Gianluca Neri

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F5.1-0009-24, p. 224; MinEon Park, Susan Yang, Ki Moon Seong

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E1.1-0032-24, p. 159; Lingling Ma

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E1.6-0034-24, p. 163; Matsuoka et al.

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D2.1-0024-24, p. 120; Other team members

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E1.19-0033-24, p. 313; Fermi-LAT collaboration

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PSB.1-0024-24, p. 188;
https://grams.sites.northeastern.edu/collaboration/

Team: **on behalf of the IXPE Science team**
E1.13-0016-24, p. 216; E1.2-0026-24, p. 211;
://ixpe.msfc.nasa.gov/partnerssciteam.htmlhttps://ixpe.msfc.nasa.gov/partnerssciteam.html

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E1.13-0018-24, p. 216; E1.2-0027-24, p. 211;
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B0.3-0001-24, p. 297; TBC

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E1.1-0061-24, p. 307; http://www.auger.org/archive/authors0242.html

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E1.1-0063-24, p. 307; Pierre Auger Collaborations

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D2.3-0036-24, p. 154; .

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PSW.7-0014-24, p. 234; Julia Putt, Enrico Camporeale, Phil Chamberlin, Fazlul Laskar, Greg Lucas, Naomi Maryuma, Mark Miesch, Eric Sutton, Yang Chen, Zhenguang Huang, Mike Liemohn, Aaron Ridley, Gabor Toth, Dan Welling, Shasha Zou, Allison Jaynes, Marty Mylnczak, Doğacan Ozturk, Nick Pedatella, Liying Qian, Hazel Bain, Richard W Eastes, Natasha Flyer, Timothy Fuller-Rowell, Holly Gilbert, David Goldstein, Dolar Highsmith, Mike Liemohn, Janet Machol, Dallas Masters, Viacheslav Merkin, Chris Pankratz, Courtney Peck, Marcin D Pilinski, Martin Snow, Jeffrey Thayer, Ed Thiemann, Mark Vincent, Zach Waldron, Yang Wang Simin Zhang

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Team: **The Tibet ASgamma collaboration**
E1.1-0033-24, p. 159; M. Amenomori, Y. W. Bao, X. J. Bi, D. Chen, T. L. Chen, W. Y. Chen, Xu Chen, Y. Chen, Cirennima, S. W. Cui, Danzengluobu, L. K. Ding, J. H. Fang, K. Fang, C. F. Feng, Zhaoyang Feng, Z. Y. Feng, Qi Gao, Q. B. Gou, Y. Q. Guo, Y. Y. Guo, Y. Hayashi, H. H. He, Z. T. He, K. Hibino, N. Hotta, Haibing Hu, H. B. Hu, K. Y. Hu, J. Huang, H. Y. Jia, L. Jiang, P. Jiang, H. B. Jin, K. Kasahara, Y. Katayose, C. Kato, S. Kato, I. Kawahara, T. Kawashima, K. Kawata, M. Kozai, Labaciren, G. M. Le, A. F. Li, H. J. Li, W. J. Li, Y. Li, Y. H. Lin, B. Liu, C. Liu, J. S. Liu, L. Y. Liu, M. Y. Liu, W. Liu, H. Lu, T. Makishima, Y. Masuda, S. Matsuhashi, M. Matsumoto, X. R. Meng, Y. Meng, A. Mizuno, K. Munakata, Y. Nakamura, H. Nanjo, C. C. Ning, M. Nishizawa, R. Noguchi, M. Ohnishi, S. Okukawa, S. Ozawa, X. Qian, X. L. Qian, X. B. Qu, T. Saito, M. Sakata, T. Sako, T. K. Sako, T. Sasaki, J. Shao, T. Shibasaki, M. Shibata, A. Shiomi, H. Sugimoto, W. Takano, M. Takita, Y. H. Tan, N. Tateyama, S. Torii, H. Tsuchiya, S. Udo, R. Usui, H. Wang, S. F. Wang, Y. P. Wang, Wangdui, H. R. Wu, Q. Wu, J. L. Xu, L. Xue, Z. Yang, Y. Q. Yao, J. Yin, Y. Yokoe, Y. L. Yu, A. F. Yuan, L. M. Zhai, H. M. Zhang, J. L. Zhang, X. Zhang, X. Y. Zhang, Y. Zhang, Yi Zhang, Ying Zhang, S. P. Zhao, Zhaxisangzhu, X. X. Zhou, and Y. H. Zou

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Team: **Theseus Consortium**
E1.12-0024-24, p. 123; L. Amati, E. Bozzo, D. Gotz, P. OBrien, A. Santangelo, et al.

Team: **Tibet AS-gamma collaboration**
E1.1-0034-24, p. 159; Tibet AS-gamma collaboration

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E1.1-0075-24, p. 308; E1.1-0092-24, p. 267; R. F. Borda (1), R. G. Bose (2), J. H. Buckley (2), N. W. Cannady (3,4,5), S. Coutu (6), P. Ghosh (3,4,5), M. Kandula (7), J. F. Krizmanic (8), W. Labrador (2), L. Lisalda (2), J. V. Martins (1), M. P. McPherson (9), J. G. Mitchell (10), J. W. Mitchell (8), S. A. I. Mognet (6), G. A. de Nolfo (10), S. Nutter (11), N. E. Osborn (2), I. M. Pastrana (2), B. F. Rauch (2), K. Sakai (12), H. Salmani (13), M. Sasaki (4,5,14), S. Smith (9), H. A. Tolentino (13), D. Washington (6), L. P. Williams (15), and W. V. Zober (2); 1. Department of Physics, University of Maryland Baltimore County, Baltimore, MD 21250, USA; 2. Department of Physics and McDonnell Center for the Space Sciences, Washington University, St. Louis, MO 63130-4899, USA; 3. Center for Space Sciences and Technology, University of Maryland Baltimore County, Baltimore, MD 21250, USA; 4. Center for Research and Exploration in Space Sciences and Technology, NASA/GSFC, Greenbelt, MD 20771, USA; 5. NASA Goddard Space Flight Center, Astrophysics Science Division, Greenbelt, MD 20771, USA; 6. Department of Physics, Penn State University, University Park, PA 16802, USA; 7. Space Coast Science, Engineering Operations Group, KBR, Titusville, FL 32780, USA; 8. NASA Goddard Space Flight Center, Greenbelt, MD 20771, USA; 9. Department of Mechanical Engineering, Howard University, Washington, DC 20059, USA; 10. NASA Goddard Space Flight Center, Heliophysics Science Division, Greenbelt, MD 20771, USA; 11. Department of Physics and Geology, Northern Kentucky University, Highland Heights, KY 41099, USA; 12. Enrico Fermi Institute, The University of Chicago, Chicago, IL 60637, USA; 13. Department of Electrical Engineering and Computer Science, Howard University, Washington, DC 20059, USA; 14. Department of Astronomy, University of Maryland, College Park, MD20742, USA; 15. Electro-Mechanical Systems Engineering Group, KBR, Greenbelt, MD 20771, USA;

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B3.1-0050-24, p. 138; Yasuko KASAI Hideaki Miyamoto Toshuyuki Nishibori Hiroyuki Maezawa Tersuya Honda

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C4.1-0003-24, p. 302; Mohammad Afraz Ahmed Warrick Ball

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G0.5-0008-24, p. 111; Adrian Radocea*, Haley C. Bauser1, Kanjakha

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B4.2-0009-24, p. 244; Antonio Garcı´a Muñoz, Eric Quémerais, Atsushi Yamazaki, Masateru Ishiguro, Stefano Mottola, Yeonho Choi, Emmanuel Marcq, Thomas Granzer, Stephan Hellmich, Jooyeon Geem, Yoonsoo Bach, Seiko Takagi, Hiroaki Saito, Hiroyuki Naito, Sunho Jin, Hangbin Jo, Bumho Lim, Léonard Lebrun, Minji Jeong, Ekaterina Chornaya, Jose E. Silva, Semyeong Oh, Evgenij Zubko, Maxim Zheltobryukhov, Anton Kochergin, Joh Na Yoon, Hyun-il Sung, Hee-Jae Lee, Myung-Jin Kim, Shigeto Watanabe, Manabu Yamada, Takehiko Satoh

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H0.2-0005-24, p. 280; .

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Team: **Vikram Sarabhai Space Centre**
C3.2-0020-24, p. 148; Mathin Chemukula Yadav, Aneesh A.N, Govind G Nampoothiri, Pritesh Meshram, A K Abdul Samad, G Subha Varier, G Sajitha, Sundar B, Sheeja Mathews, Pradeep Kumar P, Amarnath Nandi, Ullekh Pandey, Neha Naik, Sabooj Ray, Vijay Kumar Sen, Shishir Kumar S Chandra, Ganesh Varma, R Manoj, Dersana Sasidharan, Rosmy John, Tincy M Wilson and Naresh S.

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The COSPAR Capacity-Building Program
Call for Workshop Proposals

An important COSPAR activity is the Capacity Building Program, which consists of about three training workshops in developing countries each year for young space scientists, together with a related scheme of 5-10 COSPAR fellowships. Substantial grants are available for each workshop.

This Assembly presents an ideal opportunity for participants and Commissions to begin discussing ideas for proposals, from which a selection is made by a sub-group of the Panel on Capacity Building (PCB). Proposals may be submitted at any time and are evaluated as received. Members of the Panel are available to help (re)write proposals so that they best meet the goals of the program. Feel free to contact Panel members to discuss the best strategy before submitting a proposal. Given limited human and financial resources, in consultation with the organizers it may be necessary to schedule workshops later than the timeframe initially proposed. The time from proposal to workshop is on average about a year, so start the process well in advance.

Full details of this program may be found at:
https://cosparhq.cnes.fr/events/cospar-capacity-building-workshops/

The program objectives are quite specific and it is important that proposals should be consistent with them. The description of the program includes information on the selection criteria.

Proposals/queries may be addressed at any time to the members of the Panel on Capacity Building:

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UNITED NATIONS
Office for Outer Space Affairs

SUSTAINABLE DEVELOPMENT GOALS

United Nations Office for Outer Space Affairs

The United Nations Office for Outer Space Affairs (UNOOSA) is the only entity within the UN system with a mandate devoted entirely to space; and has played a historic role in supporting Member States, through the Committee on the Peaceful Uses of Outer Space (COPUOS), to advance the multilateral dialogue on space affairs and develop the global governance of outer space. UNOOSA is based in Vienna, Austria.

UNOOSA has two distinct mandates. Firstly, as a Secretariat to COPUOS, other inter-governmental bodies (related to GNSS, Asteroid Warning and Space Mission Planning) and leads the UN's inter-agency group on space, UN-SPACE. Secondly, UNOOSA serves as a capacity-builder on space law, space sustainability, and ensuring that space data, services and applications can promote socio-economic development across the globe.

As a Secretariat, the Office serves COPUOS, the only committee of the United Nations General Assembly dealing exclusively with international cooperation in the peaceful uses of outer space. COPUOS and its Scientific and Technical, and Legal Subcommittees review collaboration in space, study space-related activities, encourage space research programmes, and consider legal problems arising from exploring outer space. Current hot topics include space sustainability, the legal aspects of space resources, and lunar activities.

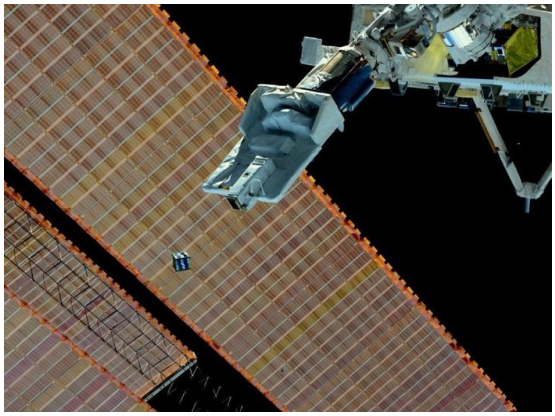
Despite growing international tensions, COPUOS has continued to demonstrate its ability to deliver results and develop UN space treaties, principles and guidelines, such as the Space Debris Mitigation Guidelines and the Guidelines for the Long-term Sustainability of Outer Space Activities. This is particularly important considering the fast-paced development and intensification of space activities. To complement this rapid growth, and ensure the implementation of international space law, UNOOSA's Space Law for New Space Actors project offers capacity-building services to the Member States to help them draft national space legislation and policies.
UNOOSA is also responsible for implementing the Secretary-General's responsibilities under international space law and for maintaining the United Nations Register of Objects Launched into Outer Space. The Register, which identifies the State responsible for a space object, is the only treaty-based transparency and confidence-building mechanism in outer space. Registration a vital pre-requisite in understanding who owns what in space; something which is increasingly important for liability, in-orbit servicing and manufacturing, and active-debris removal.

As a capacity-builder, UNOOSA unlocks access to space technologies, data, services and applications to non-space-faring nations, particularly developing countries. Through workshops, training courses, education curricula and other initiatives, the Office covers the full scope of topics related to space activities including remote sensing, satellite navigation, satellite meteorology, tele-education, space science, and space law.

Through its United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER) programme - with offices based in Bonn, Beijing, and Vienna - UNOOSA also supports United Nations Member States to access and use satellite data for the full disaster management cycle.

The UNOOSA Programme on Space Applications helps countries build capacity in basic sciences, space technology and human space technology. The Programme helps all countries leverage space data and applications in global health, disaster management, climate action, natural resources management and many more areas.

The Access to Space 4 All initiative, a flagship of the Programme, helps bridge the gap among countries in their capacity to access and benefit from space. In partnership with leading space agencies, academic institutions and commercial entities, the Office unlocks access to state-of-the-art facilities and technologies to foster competitive research and orbital opportunities through hands-on experiences. Among other exceptional achievements, the Access to Space 4 All initiative supported Kenya, Guatemala, Moldova and Mauritius to deploy their first-ever satellites from the International Space Station. Such examples have been the catalysts for the creation of space agencies and national space ecosystems.



Cube satellites being deployed from the International Space Station. Credit: JAXA

UNOOSA works closely with the six Regional Centres for Space Science and Technology Education around the world affiliated with the United Nations to increase space-related education. These provide unique training and education programmes, particularly for talent in developing countries.

In addition to supporting the work of COPUOS, UNOOSA also serves as the executive secretariat of the International Committee on Global Navigational Satellite Systems, which facilitates compatibility, interoperability, and transparency among satellite navigation systems. UNOOSA is also the permanent secretariat to the Space Mission Planning Advisory Group (SMPAG), which works with space agencies worldwide on planetary defence.

Through the Inter-Agency Meeting on Outer Space Activities (UN-Space), UNOOSA leads the United Nations system-wide cooperation and coordination on space-related issues and activities. This mechanism was set up to promote collaboration, synergy, exchange of information and coordination of programmes among United Nations entities in the implementation of activities involving the use of space technology and its applications.

In March 2018, UNOOSA and COSPAR signed a Memorandum of Understanding to enable greater collaboration on space science and technology for global development.

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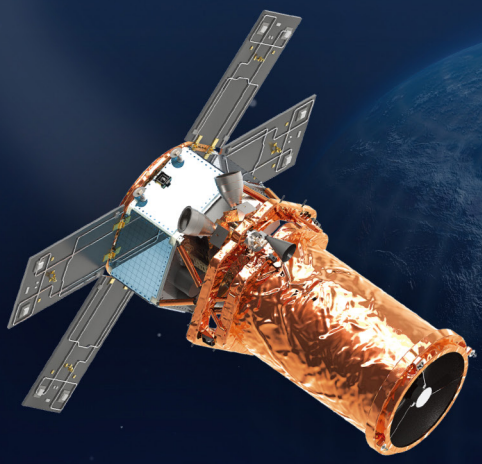
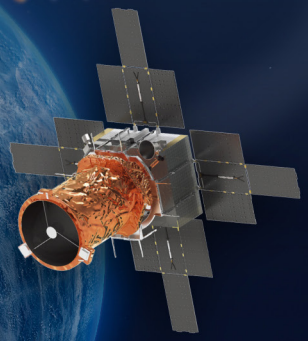


SpaceEye-T

Bands	PAN + 4 MS
GSD	PAN 0.3m, MS 1.2m
Swath Width	14km
D/L Speed	2.0 Gbps



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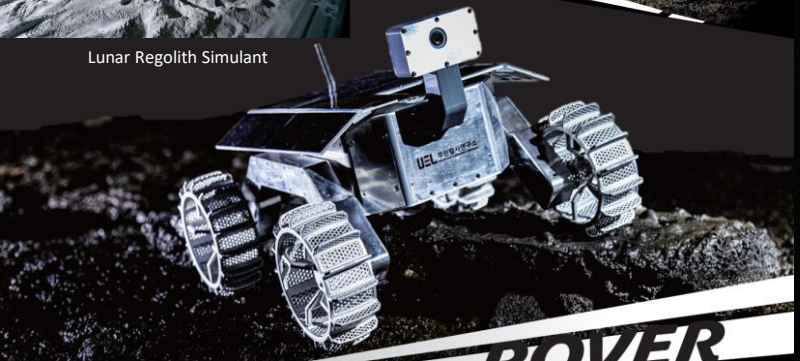
LUNAR SYSTEMS

Lunar Regolith Simulant



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ONE GIANT LEAP for AEROSPACE EXPLORATION

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FIRST LUNAR LANDER TM

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KPLL (Korea Pathfinder Lunar Lander)

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