Hall	Session Title	Session Type
08:30 - 09:00		
	ARRIVAL TIME	
09:00 - 10:00		
Auditorium	**Long-term Solar Variability: Observations, Proxies, and Models**	**SCL1**
09:00 - 09:30	**Variation of the solar activity over the last 1400 years based on two new 10Be high-resolution records from Dome C and Talos Dome (Antarctica)** Mèlanie Baroni (1), Edouard Bard (1), Ilya Usoskin (2), Mirko Severi (3), Aster Team (1) *(1) Aix Marseille Univ, CNRS, IRD, INRAE, Collège de France, CEREGE, Aix-en-Provence (FRANCE), (2) Space Physics and Astronomy Research Unit, University of Oulu, Oulu (FINLAND), (3) Chemistry Dept. Ugo Schiff, University of Florence, Sesto Fiorentino, Firenze (ITALY)*	
09:30 - 09:45	**Long-term solar variability learned from Dome Fuji ice cores in Antarctica: Present status and ongoing project** Yuko Motizuki (1), Yoichi Nakai (1), Kazuya Takahashi (1), Takashi Imamura (2), Hideaki Motoyama (3) *(1) RIKEN, Astro-Glaciology Laboratory, Wako (JAPAN), (2) National Institute for Environmental Studies, Tsukuba (JAPAN), (3) National Institute of Polar Research, Tachikawa (JAPAN)*	
09:45 - 10:00	**Annual Solar Irradiance Reconstruction Over Three Millennia** Duresa Temaj (1), Natalie Krivova (1), Sami Solanki (1), Ilya Usoskin (3), Theodosis Chatzistergos (1) *(1) Max Planck Institute for Solar System Research, Goettingen (GERMANY), (2) Technical University of Braunschweig, Braunschweig (GERMANY), (3) Space Climate Research Unit and Sodankyla Geophysical Observatory, Oulu (FINLAND)*	
Verde Room	**Cosmic Rays in the Heliosphere**	**HEL2**
09:00 - 09:15	**Particle acceleration at interplanetary shocks: from diffusive to superdiffusive scenarios** Silvia Perri (1), Giuseppe Prete (1), Gaetano Zimbardo (1) *(1) Dipartimento di Fisica, Università della Calabria, Rende (ITALY)*	
09:15 - 09:30	**Modeling of the Interaction of Solar Energetic Neutral Atoms with Earth's Ionosphere** Rami Vainio (1), Edin Husidic (1), Alexandr Afanasiev (1), Lidiya Annie John (1), Seve Nyberg (1) *(1) University of Turku, Department of Physics and Astronomy, Turku (FINLAND)*	
09:30 - 09:45	**Modulation of 1~GV protons - comparison of SOHO/EPHIN to AMS-02 fluxes** Bernd Heber (1), Malte Hörlöck (1), Stefan Jensen (1), Patrick Kühl (1), Lisa Romaneehsen (1), Holger Sierks (2) *(1) Christian-Albrechts-University, Kiel (GERMANY), (2) Max-Planck-Institut for solar research, Göttingen (GERMANY)*	
09:45 - 10:00	**Calculating anisotropic radiation dose rates using the AniMAIRE toolkit, updates, and integration with OTSO** Chris Davis (1), Fraser Baird (1), Fan Lei (1), Keith Ryden (1), Clive Dyer (1), Nicholas Larsen (2) *(1) University of Surrey, Guildford (UNITED KINGDOM), (2) Nagoya University, Nagoya (JAPAN)*	

Onice Room	Space Weather Missions - From Science to Operations	IOM2
09:00 - 09:15	**Future Strategies for Space Weather Observations and Data to Address Societal Needs** James Spann (1), Irfan Azeem (1), Yaireska Collado-Vega (1), Erin Lynch (1), Dimitrios ùVassiliadis (1), Nai -Yu Wang (1), Nicholas Zaremba (1), Laurel Rachmeler (1), Clinton Wallace (1), Howard Singer (1), Tzu -Wei Fang (1), Jamie Favors (2), Kelly Korreck (2), Esayas Shume (2), Michele Cash (2) *(1) NOAA, Silver Spring (USA), (2) NASA, Washington (USA)*	
09:15 - 09:30	**Statistical Observation System Analysis (SOSA)** Paul Obrien (1), Tim Keebler (1) *(1) The Aerospace Corporation, Chantilly, VA (USA)*	
09:30 - 09:45	**Study of Energetic Particle Precipitation and Atmospheric Impacts (SEEP): An ESA New Earth Observation Mission Idea (NEOMI)** Dedong Wang (1), Huiting Feng (1), Yuri Y. Shprits (1), Miroslav Hanzelka (2), Hilde Nesse (3), Jia Jia (4), Miriam Sinnhuber (5), Günther March (6), Patrick Espy (7), Ondrej Santolik (2), Benjamin Grison (2), Xingzhi Lyu (1), Kaori Nakashima (1), Alwin Roy (1), Martin Mlynczak (8), Yoshizumi Miyoshi (9), Bernd Funke (10) *(1) GFZ Helmholtz Center for Geosiences, Potsdam (GERMANY), (2) IAP CAS, Prague (CZECH REPUBLIC), (3) University of Bergen, Bergen (NORWAY), (4) Finnish Meteorological Institute (FMI), Helsinki (FINLAND), (5) Karlsruhe Institute of Technology (KIT), Karlsruhe (GERMANY), (6) ESA ESTEC, Keplerlaan (NETHERLANDS), (7) Norwegian University of Science and Technology, Trondheim (NORWAY), (8) Space Environment Technologies, Pacific Palisades, CA (USA), (9) Nagoya University, Nagoya (JAPAN), (10) Instituto de Astrofísica de Andalucía, Granada (SPAIN)*	
09:45 - 10:00	**SEE: A CubeSat to study solar activity and Space Weather** Letizia Casara (1), Berrilli Francesco (1) *(1) University of Rome Tor Vergata, Rome (ITALY)*	
Limonaia Room	**Machine Learning and Data Science for Geospace and Space Weather**	**OTH3**
09:00 - 09:15	**A machine learning algorithm for the classification of radiation data** Maximilian Radenhäuser (1), Thomas Berger (1), Karel Marsalek (1), Bartos Przyblya (1), Daniel Matthiä (1), Joachim Aeckerlein (1), Aleksandra Rutczynska (1), Markus Rhode (1), Michael Wirtz (1), Stephan Sous (2), Hans-Herbert Fischer (2), Sven Jansen (2), Moritz Kasemann (1) *(1) German Aerospace Center, Institute of Aerospace Medicine, Cologne (GERMANY), (2) German Aerospace Center, Microgravity Support Center, Cologne (GERMANY)*	
09:15 - 09:30	**A real-time nowcasting model for the electron radiation belt based on measurements from European missions** Sigiava Aminalragia-Giami (1), Constantinos Papadimitrio (1), Kimonas Tsilias (1), Christos Katsavrias (1), Ingmar Sandberg (1), Sebastian Benoit (2), Ramsey Al Jebali (2), Gunnar Maehlum (2), Matteo Sgammini (3), Eric Guyader (4) *(1) Space Applications & Research Consultancy (SPARC), Athens (GREECE), (2) Integrated Detector Electronics AS (IDEAS), Oslo (NORWAY), (3) European Commission, Joint Research Centre (JRC), Ispra (ITALY), (4) European Commission, Brussels (BELGIUM)*	
09:30 - 09:45	**Machine Learning for Multi-Horizon Forecasting of Geomagnetic Disturbances with Horizon-Dependent Feature Importance** Fabiana Camattari (1,2), Sabrina Guastavino (1,2), Emma Perracchione (3), Michele Piana (1,2), Anna Maria Massone (1,2) *(1) University of Genova - Department of Mathematics, Genova (ITALY), (2) National Institute for Astrophysics - Astrophysical Observatory of Turin, Torino (ITALY), (3) Polytechnic of Turin - Department of Mathematical Sciences, Torino (ITALY)*	
09:45 - 10:00	**Physically Meaningful Modeling of Dst Evolution From Symbolic Regression** Armando Collado-Villaverde (1), Consuelo Cid (1) *(1) University of Alcalá, Alcalá de Henares (SPAIN)*	
10:00 - 10:30		
Catering Area	**Coffee break**	

10:30 - 11:15

Auditorium — **E-SWAN GA**

11:15 - 12:45

Auditorium — **ESA SWWT - Discussion Panel on the Future of SWx in Europe**

12:45 - 14:00

Lunch

14:00 - 15:15

Auditorium — **Cross-scale GNSS-based monitoring of ionospheric irregularities: from physics to operational space weather services** — **MIT2**

14:00 - 14:15 — **Physics-informed deep learning for ray-path-aware GNSS ionospheric delay estimation at high latitudes**

Léa Zuili (1), François Ginisty (2), Mustapha Meftah (1)

(1) LATMOS/IPSL, UVSQ Université Paris-Saclay, Sorbonne Université, CNRS, Guyancourt (FRANCE), (2) Augura Space, Paris (FRANCE)

14:15 - 14:30 — **A study of polar cap ionospheric irregularities over Antarctica during the 2024 Mother's Day storm**

Lucilla Alfonsi (1), Luca Spogli (1), Rebecca Ghidoni (1), Claudio Cesaroni (1), Emanuele Pica (1), P T Jayachandran (2), Kaili Song (2), Vincenzo Romano (1)

(1) Istituto Nazionale di Geofisica e Vulcanologia, Rome (ITALY), (2) University of New Brunswick, Fredericton (CANADA)

14:30 - 14:45 — **Probabilistic Radio Occultation Inversion and Uncertainty-Aware Ionospheric Scintillation Geolocation**

Tibor Durgonics (1), Sarah Schultz Beeck (1), Allan Peter Engsig-Karup (2)

(1) Technical University of Denmark - DTU Space, Kgs. Lyngby (DENMARK), (2) Technical University of Denmark - DTU Compute, Kgs. Lyngby (DENMARK)

14:45 - 15:00 — **Ground- and Space-Based Gradient Indices for Characterizing and Monitoring the Ionospheric Perturbation Degree**

Juan Andrés Cahuasquí (1), Mohammed Mainul Hoque (1), Norbert Jakowski (1), Grzegorz Nykiel (1), Stephan Buchert (2), Dmytro Vasylyev (1), Martin Kriegel (1), Paul David (1), Youssef Tagargouste (1), Jens Berdermann (1)

(1) German Aerospace Center (DLR), Neustrelitz (GERMANY), (2) Swedish Institute of Space Physics (IRF), Uppsala (SWEDEN)

15:00 - 15:15 — **Integrating Multi-Network GNSS Observations Across the Arctic: The PAGINA Project**

Massimo Viola (1), Emanuele Pica (1), Carlo Marcocci (1), Vincenzo Romano (1), Luca Spogli (1), Claudio Cesaroni (1), Nicola Guglielmi (1), P. Thayyil Jayachandran (2), Chris Watson (2), Richard Chadwick (2), Kirsti Kauristie (3), Petri Koskimaa (3)

(1) Istituto Nazione di Geofisica e Vulcanologia (INGV), Rome (ITALY), (2) University of New Brunswick (UNB), Fredericton (CANADA), (3) Finnish Meteorological Institute (FMI), Helsinki (FINLAND)

Verde Room — **All about the solar wind and CMEs** — **HEL4**

14:00 - 14:15 — **Modeling Coronal and Solar Wind Structure for the August 12, 2026 Total Solar Eclipse**

Jon Linker (1), Cooper Downs (1), Ronald Caplan (1), Michal Ben-Nun (1), Ryder Davidson (1), Roberto Lionello (1), Emily Mason (1), Erika Erika

	Palmerio (1), Andres Reyes (1), Pete Riley (1), Viacheslav Titov (1), Tibor Torok (1), James Turtle (1), Solar Orbiter PHI Team (2) *(1) Predictive Science Inc, San Diego, CA (USA), (2) Max Planck Institute for Solar System Research, Goettingen (GERMANY)*	
14:15 - 14:30	**Improvements to solar wind models for real-time forecasting: data-driving and validation methodologies** Rui F. Pinto (1,2) *(1) IRAP, U. Toulouse, Toulouse (FRANCE), (2) InforMarty, Toulouse (FRANCE)*	
14:30 - 14:45	**Improving solar wind models for space weather: time-dependency and fast solar wind for coronal models** Marie Ausseresse (1), Barbara Perri (1), Sacha Brun (1) *(1) Dept. Astrophysique/AIM, CEA/IRFU, CNRS/INSU, Universite Paris et Paris-Saclay, Gif-sur-Yvette (FRANCE)*	
14:45 - 15:00	**The SHIELD Mission, a Potential Sub-L1 Game Changer for Solar Wind and CME Understanding, Modelling and Forecasting.** Mehdi Scoubeau (1), Myrto Tzamali (1), Elisa Goffo (2), Melanie Heil (1) *(1) European Space Agency, Darmstadt (GERMANY), (2) Starion GmbH, Darmstadt (GERMANY)*	
15:00 - 15:15	**Multi-Spacecraft Measurements of Coronal Mass Ejections Near 1 AU Near The Maximum of Solar Cycle 25: Consequences for Future Space Weather Missions** Noé Lugaz (1), Bin Zhuang (1), Nada Al-Haddad (1), Sahanaj Banu (1) *(1) University of New Hampshire, Durham, NH (USA)*	
Onice Room	**Space Weather Missions - From Science to Operations**	**IOM2**
14:00 - 14:15	**Phase A of SWORD: Advancing the ESA Radiation Belt Monitoring Mission from Concept to Future Space Weather Service** Andrea Ferrara (1), Francesco Ferrari (1), Erik Garofalo (1), Maria Consiglia Salvemini (1), Sebastian Benoit (2), Vytenis Orlauskis (2), Ingmar Sandberg (3), Theodoros Sarris (4), Melanie Heil (5) *(1) Argotec S.r.l., San Mauro Torinese (ITALY), (2) IDEAS AS, Oslo (NORWAY), (3) SPARC, Athens (GREECE), (4) DUTH, Komotini (GREECE), (5) ESA, Darmstadt (GERMANY)*	
14:15 - 14:30	**Observing the corona, monitoring the solar wind: the first year of the SOLAR-1 mission** Dimitris Vassiliadis (1), Rob Ebert (2), Jeff Johnson (3), Davin Larson (4), Laurel Rachmeler (5), Rob Redmon (5), William Rowland (5), James Spann (1), Arnaud Thernisien (6), Roy Torbert (7) *(1) NOAA NESDIS Space Weather Observations (SWO), Lanham, MD (USA), (2) Southwest Research Institute, San Antonio, TX (USA), (3) NOAA SWPC, Boulder, CO (USA), (4) University of California Berkeley, Berkeley, CA (USA), (5) NOAA NESDIS NCEI, Boulder, CO (USA), (6) Naval Research Lab, Washington, DC (USA), (7) University of New Hampshire, Durham, NH (USA)*	
14:30 - 14:45	**Soft X-ray Spectroscopic Diagnostics of M-Class Solar Flares with Aditya-L1/SoLEXS** Prakhar Singh (1), Vaibhav Pant (2), Bhuwan Joshi (3), Abhilash R. Sarwade (4,5), M V Sunil Krishna (6,7) *(1) Aryabhatta Research Institute of Observational Sciences, Nainital (INDIA), (2) Department of Physics, Indian Institute of Technology, Delhi, New Delhi (INDIA), (3) Udaipur Solar Observatory, Physical Research Laboratory, Udaipur (INDIA), (4) U.R. Rao Satellite Centre, Indian Space Research Organisation, Bengaluru (INDIA), (5) Department of Physics, Indian Institute of Technology Guwahati, Guwahati (INDIA), (6) Department of Physics, Indian Institute of Technology Roorkee, Roorkee (INDIA), (7) Centre for Space Science and Technology, Indian Institute of Technology Roorkee, Roorkee (INDIA)*	
14:45 - 15:00	**Observing the Inner Heliosphere from the Sun-Venus Lagrange Points: Defining a New Space Mission Concept for Space Weather Forecasting** Giuseppe NIsticò (1), Federica Chiappetta (1), Giuseppe Prete (1), Vincenzo Capparelli (1), Silvia Perri (1), Antonella Greco (1), Gaetano Zimbardo (1), Sergio Servidio (1) *(1) Università della Calabria, Rende (ITALY)*	
15:00 - 15:15	**Where Should the Perfect Sub-L1 Monitor Be? Insights from Global MHD Simulations** Erika Palmerio (1), Emma Davies (2), Christian Möstl (2) *(1) Predictive Science Inc., San Diego (USA), (2) Austrian Space Weather Office, Graz (AUSTRIA)*	

Limonaia Room	**Machine Learning and Data Science for Geospace and Space Weather**	OTH3
14:00 - 14:15	**Onboard Machine Learning for Space Weather: Compact Models and Space-Grade Acceleration for Solar, SEP and Plasma-Region Inference** George Miloshevich (1), Ekaterina Dineva (1), Panagiotis Gonidakis (1), Jonah Ekelund (2), Stefano Markidis (2), Artur Podobas (2), Pedro Antunes (2), Maria Federica Marcucci (3), Monica Lorenza (3), Rossana de Marco (3), Alessandro Retinò (3), Gian Luca Giuffrida (5), Francesco Valentini (4), Stefaan Poedts (1) *(1) KU Leuven, Leuven (BELGIUM), (2) KTH, Stockholm (SWEDEN), (3) INAF, Rome (ITALY), (4) UNICAL, Cozenza (ITALY), (5) Ingeniars (ITALY)*	
14:15 - 14:30	**Nowcasting the Aurora Using an Irregular Network of Geomagnetic Observatories** Andy Smith (1), Matthis Houles (1), Matthew Billcliff (1), Gareth Chisham (2), Colin Forsyth (3), Jonathan Rae (1), Jesper Gjerloev (4) *(1) Department of Engineering, Physics and Mathematics, Northumbria University, Newcastle Upon Tyne (UNITED KINGDOM), (2) British Antarctic Survey, Cambridge (UNITED KINGDOM), (3) Mullard Space Science Laboratory, University College London, Dorking (UNITED KINGDOM), (4) The Catholic University of America, Washington DC (USA)*	
14:30 - 14:45	**A New Machine Learning Ionospheric Model for Global and Local Prediction of F2-Layer Peak Parameters for Operational and Scientific Applications** Ephrem Seba (1), Stefaan Poedts (1) *(1) CmPA/Dept. of Mathematics, KU Leuven, Celestijnenlaan 200B, 3001 Leuven, Belgium, Leuven (BELGIUM), (2) University of Maria Curie-Sklodowska, Pl. Marii Curie-Sklodowskiej 1, 20-031 Lublin, Poland (POLAND)*	
14:45 - 15:00	**Unlocking Global Airglow Archive: Deep Learning for Automated Ionospheric Irregularity Tracking** Simon Mackovjak (1), Carlos Martinis (2), Joei Wroten (2), Jeffrey Baumgardner (2), Kristína Gvozdiaková (1), Lukas Kostar (1), Silvia Kostarova (1) *(1) Institute of Experimental Physics, Slovak Academy of Sciences, Kosice (SLOVAK REPUBLIC), (2) Center for Space Physics, Boston University, Boston (MA) (USA)*	
15:00 - 15:15	**Multi-Source Data Fusion for Global TEC Map Construction with VISTA Algorithm** Hang Liu (1), Shasha Zou (2), Grace Kwon (3), Lei Liu (4), Mary Smirnova (5) *(1) Department of Climate and Space Sciences and Engineering, University of Michigan, Ann Arbor, Michigan (USA), (2) Department of Climate and Space Sciences and Engineering, University of Michigan, Ann Arbor, Michigan (USA), (3) Department of Climate and Space Sciences and Engineering, University of Michigan, Ann Arbor, Michigan (USA), (4) Department of Climate and Space Sciences and Engineering, University of Michigan, Ann Arbor, Michigan (USA), (5) Department of Climate and Space Sciences and Engineering, University of Michigan, Ann Arbor, Michigan (USA)*	

15:30 - 17:00

Auditorium	**Solar Wind Forcing and Coupled Magnetosphere-Ionosphere-Thermosphere Dynamics**	MIT1
15:30 - 15:45	**Quantifying the Ionosphere-Thermosphere Response through a Statistical Study of 100+ Solar Flare Events** Komal Komal (1), Pallamraju Duggirala (1) *(1) Physical Research Laboratory-Department of Space and Atmospheric Sciences, Ahmedabad (INDIA)*	
15:45 - 16:00	**Neutral mass density scale height in the upper thermosphere estimated from LEO satellite measurements** Lei Cai (1), Heikki Vanhamäkki (1), Anita Aikio (1), Marcus Pedersen (1), Milla Myllymaa (1) *(1) Space Physics and Astronomy, University of Oulu, Oulu (FINLAND)*	
16:00 - 16:15	**Statistical analysis of Ionospheric morphology and dynamics using LOFAR** Rebecca Ghidoni (1), Luca Spogli (1, 2), Maaijke Mevius (3, 4), Claudio Cesaroni (1)	

	(1) Istituto Nazionale di Geofisica e Vulcanologia, Rome (ITALY), (2) SpacEarth Technology, Rome (ITALY), (3) ASTRON, The Netherlands Institute for Radio Astronomy, Dwingeloo (NETHERLANDS), (4) Kapteyn Astronomical Institute, University of Groningen,, Groningen (NETHERLANDS)	
16:15 - 16:30	**Multifractal MIT Coupling: From 24th Solar Cycle Extremes to Recent Geomagnetic Storms** Mahdi Momeni (1), Yenca Migoya Orue (2), Onyinye G. Nwankwo (3) *(1) Faculty of Physics, Shahrood University of Technology, Sharood (IRAN, ISLAMIC REP), (2) The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste (ITALY), (3) Department of Climate and Space Science and Engineering, University of Michigan, Ann Arbor (USA)*	
16:30 - 16:45	**What do satellite orbits reveal about the spatio-temporal thermospheric response to space weather? A multi-satellite study across ~470-810 km altitude during 2023 and 2024** Vanessa Mercea (1), Lucia Kleint (1), Daniel Arnold (1), Adrian Jaeggi (1) *(1) Astronomical Institute of the University of Bern, Bern (SWITZERLAND)*	
16:45 - 17:00	**Examination of complex solar storms within the forecasting service SODA** Barbara Suesser-Rechberger (1), Alexander Scheicher (1), Manuela Temmer (1), Andreas Strasser (2), Sandro Krauss (2) *(1) University of Graz, Graz (AUSTRIA), (2) Graz University of Technology, Graz (AUSTRIA)*	
Verde Room	**Radiation Instrumentation for In-Situ Space Weather Monitoring Across the Solar System**	**IOM4**
15:30 - 15:45	**Development of an improved GOES - SOHO/EPHIN combined proton dataset** Henrik Dröge (1), Bernd Heber (1), Stefan Jensen (1), Michalis Karavolos (2), Patrick Kühl (1), Olga Malandraki (2), Arik Posner (3) *(1) Christian-Albrechts-University, Kiel (GERMANY), (2) National Observatory of Athens, Athen (GREECE), (3) NASA Johnson Space Center, Houston TX (USA)*	
15:45 - 16:00	**The 3D Energetic Electron Spectrometer (3DEES) onboard PROBA-3: first results on electron fluxes and their pitch angle distributions** Stanislav Borisov (1), Sylvie Benck (1) *(1) UCLOUVAIN, Louvain-la-Neuve (BELGIUM)*	
16:00 - 16:15	**Results from radiation spectrometer HardPix onboard ISS and ION satellite** Robert Filgas (1), Milan Malich (1), Daniela Doubravova (1), Petr Weigl (1), Ondrej Pavlas (1) *(1) Czech Technical University in Prague, Prague (CZECH REPUBLIC)*	
16:15 - 16:30	**MERIT and AGILE: Two In-situ Solid State detector based energetic particle instruments** Shrikanth Kanekal (1), Florian Gautier (2), Ashley Greeley (1), Quintin Schiller (1) *(1) NASA GSFC, Greenbelt (USA), (2) GMU, Faifax (USA)*	
16:30 - 16:45	**REPE - Relativistic Electron and Proton Experiment: Advanced Radiation Instrument for Space Weather Applications** Osku Raukunen (1), Deepa Anantha Raman (1), Philipp Oleynik (2), Tero Säntti (1,2), Pasi Virtanen (1,2), Mika Hirvonen (1), Alla Marchenko (1), Jouni Saari (1), Maria Federica Marcucci (3), Monica Laurenza (3), Rami Vainio (2), Jussi Lehti (1) *(1) Aboa Space Research Oy (ASRO), Turku (FINLAND), (2) University of Turku - Department of Physics and Astronomy, Turku (FINLAND), (3) National Institute for Astrophysics (INAF) - Institute for Space Astrophysics and Planetology (IAPS), Rome (ITALY)*	
16:45 - 17:00	**MINI.PAN: A COMPACT HIGH PRECISION MAGNETIC SPECTROMETER FOR REAL TIME PARTICLE FLUX MONITORING IN SPACE** Giovanni Ambrosi (1) *(1) INFN Sezine di Perugia, Perugia (ITALY)*	
Onice Room	**Radio instruments and diagnostics: from source regions to space weather applications**	**HEL3**

15:30 - 15:45

Using type III radio bursts as evidence of particle escape from the Sun for enhancing solar proton forecasting capabilities

Olga Malandraki (1), Arik Posner (2), Michalis Karavolos (1), Henrik Droege (3), Bernd Heber (3), Patrick Kuehl (3), Lefteris Tsipis (1), Janet Barzilla (4,2), Edward Semones (2), Kathryn Whitman (5,2), M. Leila Mays (6), Chinwe Didigu (7,6), Christopher J. Stubenrauch (8,6), Claudio Corti (9,6), Vratilslav Krupar (10,6), Milan Maksimovic (11)

(1) National Observatory of Athens/IAASARS, Athens (GREECE), (2) NASA Johnson Space Center, Houston TX (USA), (3) Christian-Albrechts-Univesitaet zu Kiel, Kiel (GERMANY), (4) Leidos Inc. (USA), (5) KBR (USA), (6) NASA Goddard Space Flight Center, Greenbelt, MD (USA), (7) ADNET Systems (USA), (8) The Catholic University of America, Washington, DC (USA), (9) University of Hawai at Manoa, Honolulu, HI (USA), (10) University of Maryland, Baltimore County, Baltimore MD (USA), (11) Observatoire de Paris (FRANCE)

15:45 - 16:00

Radio observations for space weather science, introducing IDOLS (Incremental Development of LOFAR Space-Weather) and plans for LOFAR 2.0

Pietro Zucca (1), Soham Dey (1), Maaijke Mevius (1), Mattia Mancini (2), Kamen Kozarev (3), Peter Gallagher (4), Monica Laurenza (5)

(1) ASTRON, Dwingeloo (NETHERLANDS), (2) SKAO, Manchester (UNITED KINGDOM), (3) BAS, Sofia (BULGARIA), (4) DIAS, Dublin (IRELAND), (5) INAF, Roma (ITALY)

16:00 - 16:15

High-frequency magnetic loops for monitoring solar radio bursts

Thierry Dudok De Wit (1), Vladimir Krasnoselskikh (1), Oleksiy Agapitov (2), Vassilis Angelopoulos (3), Clara Froment (1), Guillaume Jannet (1), Marc Pulupa (2), Ethan Tsai (3), Germain Vengeons (1), Shiyu Xia (3)

(1) LPC2E, CNRS, University Orleans, CNES, Orléans (FRANCE), (2) Space Sciences Laboratory, UC Berkeley, Berkeley (USA), (3) Institute of Geophysics and Planetary Physics, UCLA, Los Angeles (USA)

16:15 - 16:30

SPADE: A Fully Digital Solar Radio Array for Space Weather

Antonio Martìnez Picar (1), Christophe Marqué (1), Jasmina Magdalenic (1)

(1) Royal Observatory of Belgium - Solar Influences Data analysis Center, Brussels (BELGIUM)

16:30 - 16:45

The SMOS 1.4 GHz Solar Radio Burst Database: Properties and Opportunities

Federica Guarnaccia (1), Roberta Forte (2), Raffaele Crapolicchio (2)

(1) Serco Italia S.p.A., Rome (ITALY), (2) Serco for ESA, Rome (ITALY)

16:45 - 17:00

Radio and Millimeter Observations of the Sun - Probing the Solar Origins of Space Weather

Sven Wedemeyer (1), Mats Kirkaune (1), Timothy S Bastian (2), Roman Brajsa (3), Stanislav Gunar (4), Adam Kobelski (5), Atul Mohan (6), Galina Motorina (7,8), Alexander Nindos (9), Pellizzoni Alberto Paolo (10), Marco Potenza (11), Maryam Saberi (1), Rohit Sharma (12), Paulo Simões (13,14), Stephen White (15)

(1) University of Oslo, Oslo (NORWAY), (2) National Radio Astronomy Observatory, Charlottesville (USA), (3) University of Zagreb, Zagreb (CROATIA), (4) Astronomical Institute, The Czech Academy of Sciences, Ondrejov (CZECH REPUBLIC), (5) NASA MSFC, Huntsville (USA), (6) National Astronomical Observatory of Japan, Mitaka (JAPAN), (7) Central Astronomical Observatory at Pulkovo of Russian Academy of Sciences, St. Petersburg (RUSSIA), (8) Ioffe Institute, St. Petersburg (RUSSIA), (9) University of Ioannina, Ioannina (GREECE), (10) University of Milan, Milan (ITALY), (11) INAF, Cagliari (ITALY), (12) Fachhochschule Nordwestschweiz, Windisch (SWITZERLAND), (13) Mackenzie Presbyterian University, Sao Paulo (BRAZIL), (14) University of Glasgow, Glasgow (UNITED KINGDOM), (15) Air Force Research Laboratory, Kirtland (USA)

Limonaia Room

Bridging the inner solar atmosphere to the heliosphere: Integrating low-atmospheric physics into next-generation Space Weather forecasting

SOL3

15:30 - 16:00

How can the lower atmosphere influence space weather previsions?

Barbara Perri (1), Allan Sacha Brun (1), Antoine Strugarek (1), Stefaan Poedts (2,3), Brigitte Schmieder (4), Étienne Pariat (5)

(1) AIM - CEA, Gif-sur-Yvette (FRANCE), (2) KU Leuven, Leuven (BELGIUM), (3) Institute of Physics, University of Maria Curie-Sklodowska, Lublin (POLAND), (4) Observatoire de Paris, Meudon (FRANCE), (5) LPP, Paris (FRANCE)

16:00 - 16:15

A global solar atmosphere model

Stefaan Poedts (1)

(1) KU Leuven, Leuven (BELGIUM)

16:15 - 16:30	**Combining multi-spacecraft observations of a CME with numerical simulations (I): Data-driven modelling with RIMAP** Alessandro Bemporad (1), Ruggero Biondo (1), Giuseppe Prete (2), Federica Frassati (1), Salvatore Mancuso (1), Giuseppe Nistico (2), Paolo Pagano (3), Silvia Perri (2), Fabio Reale (3), Roberto Susino (1), Gaetano Zimbardo (2) *(1) INAF-Astrophysical Observatory of Turin, Torino (ITALY), (2) University of Calabria, Department of Physics, Cosenza (ITALY), (3) University of Palermo, Department of Physics and Chemistry, Palermo (ITALY)*
16:30 - 16:45	**First imaging observations of the evolution of Eruptive Prominences and Coronal Mass Ejections at radio K-band (18-26 GHz), a new observing tool linking the solar atmosphere with the heliosphere** Alberto Pellizzoni (1), Abimael Amaro (1), Davide Napolitano (2), Sara Mulas (1), Marco Marongiu (1), Simona Righini (2), Elise Egron (1) *(1) INAF-Osservatorio Astronomico di Cagliari, Cagliari (ITALY), (2) INAF-IRA, Bologna (ITALY)*
16:45 - 17:00	**Linking Nested Active Region Evolution to Heliospheric Structure: The Impact of CME-HCS Interactions in October 2024 on Space Weather Forecasting** Manuela Temmer (1), Stephan G. Heinemann (1,2), Nina Dresing (3), Mateja Dumbovic (2), Eleanna Asvestari (4) *(1) Institute of Physics, University of Graz, Graz (AUSTRIA), (2) Department of Physics, University of Helsinki, Helsinki (FINLAND), (3) Department of Physics and Astronomy, University of Turku, Turku (FINLAND), (4) Hvar Observatory, Faculty of Geodesy, University of Zagreb, Zagreb (CROATIA)*

17:00 - 19:45

Exhibition Area	**The Fair**