\	Wednesday,	October 25,	2023	
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14:00 - 14:30 Registration, opening remarks

Session: Solar Atmosphere: magnetic field emergence and dynamics, convection, wave propagation, chromospheric and coronal heating

chair DANIELE SPADARO -

14:30 14:55 **Salvo Guglielmino**: Magnetic coupling between photosphere and upper atmosphere: the role of small-scale interactions

14:55 15:10 Paolo Romano : Chromospheric Evershed Flow in Sunspot Penumbra: Insights from SOM Technique Observations

15:10 15:25 Luca Barbieri : Temperature inversion in a gravitationally bound plasma atmosphere

15:25 15:40 Serena Maria Lezzi : Dark Halos around Solar Active Regions: multi-wavelength view of the Dark Halo around NOAA 12706

15:40 16:40 Coffee Break and Poster Session

16:40	17:05	Paolo Pagano : From magnetic reconnection to nanojets and nanoflares in the solar corona
17:05	17:20	Petr Jelínek : Plasma vortices, magnetic field cocoons and plasmoids in the turbulent plasma flow
17:20 Stratos	17:35 phere	Luca Zangrilli : Coronal Magnetograph - CorMag - Observing the Solar Corona from the
17:35	17:50	Gabriele Cozzo : MUSE EUV spectroscopy of a coronal loop system undergoing MHD-avalanche
17:50 Radiote	18:05 elescopes	Alberto Pellizzoni : Single-Dish Radio Monitoring of the Solar Atmosphere with INAF :: Early Scientific Results and Future Challenges

Session Solar Eruptions: observations and theoretical modeling of spicules, jets, filaments/prominences, CMEs

chair VINCENZO ANDRETTA —

09:15 09:40 **Roberto Susino**: Coronagraphic Observations of Coronal Mass Ejections and New Results from Solar Orbiter

09:40 09:55 Shuting Li: First multi-view observations of an erupting prominence in the UV Lyman-alpha line with SolO/Metis and ASO-S/LST instruments

09:55 10:10 Clementina Sasso : Multi-spacecraft Observations of a Large Prominence Eruption and a CME

10:10 10:25 Giuseppe Nisticò : A high-latitude coronal mass ejection observed by a constellation of coronagraphs: Solar Orbiter/Metis, STEREO-A/COR2, and SOHO/LASCO

10:25 10:40 Federica Frassati : Study of plasma heating processes in a CME-driven shock-sheath region observed with Metis coronagraph

10:40 11:40 Coffee Break and Poster Session

– chair GIUSEPPE NISTICÒ –

11:40 11:55 Giuliana Russano : Strong UV-emitting eruptions observed with the Metis coronagraph on-board Solar Orbiter

11:55 12:10 Emanuele Amato : Study of transient events in the solar corona through combined analysis of images acquired by the Metis multi-channel coronagraph on board the ESA Solar Orbiter mission

12:10 12:35 Gianluca Napoletano: Prediction of ICME arrivals at Earth through ensemble modelling

12:35 12:50 Mattia Sangalli : Local MHD simulations of Interplanetary Coronal Mass Ejections

12:50 13:05 Giuseppe Consolini: On the dynamical complexity of magnetospheric dynamics.

13:05 14:35 Lunch

Session Solar Flares: radiation, reconnection, SEP diffusion

chair ANNA MARIA MASSONE —

14:35 15:00 **Vanessa Polito**: Energy release in the impulsive phase of flares

15:00 15:15 Fabiana Ferrente : *Multi-line spectropolarimetric NLTE inversions of the X1.6 Flare occurred in AR12192*

15:15 15:30 Alessandro Bemporad : First Determination in the Extended Corona of the 2D Thermal Evolution of a Current Sheet after a Solar Eruption

15:30 15:45 Marco Molinaro : CAESAR prototype for ASPIS: from Space Weather chains of phenomena through resource management to user interfaces

15:45 16:45 Coffee Break and Poster Session

16:45	17:10	Paolo Massa: Hard X-ray imaging-spectroscopy of solar flares with Solar Orbiter STIX
17:10	17:25	Hervé Haudemand : Characterization of a X-ray monitor on-board the Helianthus sailcraft
17:25	17:40	Simone Benella: Current observations and future perspectives of the CSES-01 High Energy
Particle Detector for solar physics and space weather studies		
17:40	17:55	Elena Orlando : Overview and Updates of the non-flaring Emission from the Sun by Galactic
Cosmic	Kays	

Session Solar Wind: heating & acceleration, identification of the sources, properties of the heliospheric solar wind

- chair LUCA ZANGRILLI -

09:30 09:55 **Emanuele Papini**: Properties of plasma turbulence at sub-ion scales: a spatiotemporal multiscale analysis via Hall-MHD and hybrid simulations.

09:55 10:10 Francesco Carella: Study of reconnection exhausts in the solar wind at 1 A.U. with Machine Learning techniques

10:10 10:25 Silvio Giordano : Solar Wind Speed Maps from the Metis coronagraph observations

10:25 10:40 Lucia Abbo : Combined coronal observations of streamer belt with Metis and EUI instruments on Solar Orbiter

10:40 10:55 Ruggero Biondo : 2D MHD modeling of switchbacks from jetlets in the slow solar wind

10:55 11:55 Coffee Break and Poster Session

chair MIRKO PIERSANTI

11:55 12:20 **Luca Franci**: Observational and numerical evidence of multi-scale pressure-balanced fluctuations in the slow solar wind

12:20 12:35 Raffaella D'Amicis : Alfvénicity and non-Maxwellian features observed in solar wind streams by Solar Orbiter

12:35 12:50 Lorenzo Matteini: The solar wind ion temperature profile: non-adiabatic expansion and heating

12:50 13:05 Denise Perrone: In-situ measurements of solar wind plasma and their combination with remote sensing observations: Italian contribution

13:05 14:35 Lunch

chair LUCA GIOVANNELLI -

14:35 14:50 Marco Stangalini : The Italian contribution to the next generation high resolution solar physics missions: Solar-C and MUSE

Session Long and Large Scale dynamics: Solar Cycle, Corotating Interaction Region, Interplanetary Shocks, Solar Irradiance

14:50 15:15 **Daniele Calchetti**: The Polarimetric and Helioseismic Imager on board Solar Orbiter: challenges, data and results from the Nominal Mission Phase

15:15 15:30 Edoardo Alaimo : *Advancements in Carbon Nanotube-Based Filters for EUV Solar Coronal Spectroscopy*

15:30 15:55 **Silvia Perri**: Flat particle energy spectra upstream of fast interplanetary shocks

15:55 16:55 **Coffee Break and Poster Session**

storm.

16:55	17:20	Giulia D'Angelo : Effects of severe storm drivers on the ionosphere-magnetosphere coupling
17:20	17:35	Mirko Piersanti : On the magnetosphere-ionosphere coupling during the May 2021 Geomagnetic

17:35 17:50 Luca Giovannelli : The magnetic complexity of solar active regions: insight on the CME-flare relationship in Solar Cycle 24

POSTER SESSION

Vincenzo Andretta Near Infrared off-limb lines with Cryo-NIRSP

Ruggero Biondo Reconstructing the Parker Spiral with The Reverse In-situ and Mhd

APproach (RIMAP)

Christina Karakotia Solar radio monitoring with the 32-m Grueff Radio Telescope

Giuseppe Nisticò A comprehensive analysis of the CME-driven shock of the 5th of

Sep 2022 by multi-spacecraft observations

Paolo Pagano Using S2WARM, a physic-based numerical model, to identify

eruptive active regions. A 45 days analysis sources of Space

Weather