

Session 1: Solar interior, dynamo and the solar cycle

Session 2, The solar atmosphere from the solar surface into the interplanetary space: heating, cooling, dynamics, turbulence

Session 3: Solar-Heliospheric connection: energy release, triggering, prediction and impact of flares/CMEs and the solar wind on Earth

Session 4: Numerical modelling and machine learning

Session 5: Solar instrumentation and ground/space missions

Quick Look

Due to two online-talks from European time zone, the order for completing above sessions is scheduled as following (S = Session):

Sept 14	12:00–	18:00–
	on-site registration	Reception
Sept 15	08:30–09:10	
	Opening	
Sept 15	09:10–12:10	14:00–17:05
	S2	S1
Sept 16	08:30–12:20	14:00–16:15
	S2,	S3
Sept 17	08:30–12:05	13:30–19:00
	S3	Visting astronomical station etc.
Sept 18	08:30–12:00	14:00–18:00
	S3	S5
Sept 19	08:30–12:10	12:10
	S4	Closing and lunch

September 15 (Day 1), Morning		
08:30-09:10	Opening	
The solar atmosphere from the solar surface into the interplanetary space: heating, cooling, dynamics, turbulence (S2)		
Time	Speaker	Title
09:10-09:35	Tom Van Doorselaere	MHD waves and heating in the solar corona (invited)
09:35-09:50	Rony Keppens	Mathematics for coronal rain: the hydrodynamic thermal continuum
09:50-10:15	Hui Tian	Mapping the global coronal magnetic field through 2D coronal seismology (invited)
10:15-10:30	Sahel Dey	Global Scale MHD Modelling of the Slow Solar Wind in light of In-Situ Observations
10:30-11:00	Coffee Break	
11:00-11:15	Annu Bura	Formation of Chromospheric Fan-shaped Jets through Magnetic Reconnection
11:15-11:40	Jiajia Liu	Jets and swirls on the Sun (invited)
11:40-11:55	SuliMa	First Observation and Interpretation of Spike-like Repeating Burst Pairs
11:55-12:10	Jinge Zhang	Imaging a Large Coronal Loop Using Type U Solar Radio Burst Interferometry
	Lunch	

September 15 (Day 1), Afternoon		
Solar interior, dynamo and the solar cycle (S1)		
14:00-14:25	Rekha Jain	Advances in Helioseismology (invited, on-line)
14:25-14:40	Binghang Li	Revaluating the role of the surface magnetic field in the solar dynamo.
14:40-14:55	Rodion Stepanov	Synchronization Effects in a Nonlinear Solar Dynamo Model
14:55-15:10	Hongqi Zhang	Solar activities and cycles from observed solar magnetic fields
15:10-15:25	Dan Yang	FARM: A Combined Surface Flux Transport and Helioseismic Far-Side Active Region Model
15:25-15:40	Yukun Luo	Simulation of solar surface flux transport constrained by magnetic power spectra
15:40-16:10	Coffee Break	
16:10-16:35	Shuhong Yang	Investigation of solar polar magnetic fields (invited)
16:35-16:50	Haiqing Xu	Solar cycle variation of current helicity inferred from vector magnetograms obtained by HSOS/SMFT
16:50-17:05	Qi Hao	Long-term variations of solar activities and active region features detected via machine learning
17:05-17:20	Haiyu Li	Helioseismic Survey of Acoustic Waves Travel-time in Sunspots
The solar atmosphere from the solar surface into the interplanetary space: heating, cooling, dynamics, turbulence (S2)		
17:20-17:35	Wenxian Li	Solar and Stellar Magnetic Field Diagnostics from X-ray and EUV Spectra
17:35-17:50	Ruihui Wang	Solar Surface Magnetic Field Simulation from 2010 to 2024 and Anomalous Southern Poleward Flux Transport in Cycle 24
17:50-18:05	Axel Raboonik	MHD Eigenenergy Theory
18:30-20:30	Poster party (with food and drinks)	

September 16 (Day 2), Morning		
The solar atmosphere from the solar surface into the interplanetary space: heating, cooling, dynamics, turbulence (S2)		
08:30-08:55	Daniel Nóbrega-Siverio	Deciphering solar coronal heating: 3D reconnection in Coronal Bright Points (invited)
08:55-09:10	Xiuhui Zuo	Sequential ejections of plasma blobs due to unbraiding of tangled loops in the solar atmosphere
09:10-09:25	Stephane Regnier	A statistical study of potential field energy in solar active regions
09:25-09:40	David Pontin	Interchange magnetic reconnection: mass and energy transport between closed and open field in the corona
09:40-09:55	Xiaohong Li	3D structures of the base of small-scale recurrent jets revealed by Solar orbiter
09:55-10:10	Yuhang Gao	Reconnection Nanojets in an Erupting Solar Filament with Unprecedented High Speeds
10:10-10:40	Coffee Break	
10:40-10:55	Daniel Clarkson	Tracing the heliospheric magnetic field via anisotropic radio-wave scattering
10:55-11:20	Chunlan Jin	Flux emergence and local dynamo processes in the solar atmosphere (invited)
11:20-11:35	Elias Roland Udnæs	Using extensive NLTE spectral analyses in time and space to estimate chromospheric heating
11:35-11:50	Yajie Chen	Mass supply to solar wind through magnetic reconnection
11:50-12:05	Zhenxuan Sun	Connectivity between Solar Wind Variability and Source Regions during Parker Solar Probe Encounter 7
12:05-12:20	Fan Zhang	Multi-fluid-multi-species modeling of magnetohydrodynamics wave propagation in partially ionized plasmas
	Lunch	

September 16 (Day 2), Afternoon

Solar-Heliospheric connection: energy release, triggering, prediction and impact of flares/CMEs and the solar wind on Earth (S3)

14:00-14:25	Hamish Reid	Using Type III Radio Bursts to Diagnose Electron Kinetics (invited)
14:25-14:40	Guiping Zhou	Investigation of the Large-Scale Magnetic Source Topology of Extreme Solar Eruptions in May 2024
14:40-14:55	Xu Yang	Various of Mid-infrared Sources in an X6.4 Flare
14:55-15:10	Ting Li	Observations of 3D magnetic reconnections
15:10-15:25	Lijuan Liu	On the CME Productivity of solar active region 13664
15:25-15:40	Hechao Chen	Minifilament Eruptions as the Last Straw to Break the Equilibrium of a Giant Solar Filament
15:40-15:55	Yong Zhang	A real-time prediction system of the intensity of solar energetic proton events based on a solution of the diffusion equation
15:55-16:10	Shihan Li	Enhanced Peak and Extended Cooling of the Extreme-ultraviolet Late Phase in a Confined Solar Flare
16:10-18:00	POSTER	
18:00-20:30	Banquet	

September 17 (Day 3), Morning		
Solar-Heliospheric connection: energy release, triggering, prediction and impact of flares/CMEs and the solar wind on Earth (S3)		
08:30-08:55	Stephanie Yardley	Exploring the connection between the Sun and the Heliosphere (invited)
08:55-09:10	Xin Cheng	Toward Understanding Coronal Mass Ejection Initiation
09:10-09:25	Jinhan Guo	The Birth of a Major Coronal Mass Ejection with Intricate Magnetic Structure from Multiple Active Regions
09:25-09:40	Joerg Buechner	Kinetic turbulence and reconnection in the solar atmosphere: from electrons to heavy ion acceleration
09:40-09:55	Chen Xing	Initiation Route of Coronal Mass Ejections
09:55-10:25	Coffee Break	
10:25-10:40	Victor Melnikov	Dynamics of microwave flare emission: Influence of scattering, energy losses, and acceleration of nonthermal electrons
10:40-11:05	Yingna Su	Faint magnetic eruption of a transequatorial flux rope and its impact to space weather (invited)
11:05-11:20	Arun Awasthi	Probing seed electron characteristics through nonthermal emission and solar energetic electrons: STIX and EPD observations
11:20-11:35	Mirabbos Mirkamalov	Probing Hard X-Ray Footpoint Asymmetry in Solar Flares
11:35-11:50	Hanzhao Yang	Photospheric horizontal magnetic field decrease preceding a major solar eruption
11:50-12:05	Zhao Wu	An Extremely Strong millimeter Burst Induced by Two Successive Flares
	Lunch	
September 17 (Day 3), Afternoon		
13:30-	Visiting Astronomical Station and Excursion	

September 18 (Day 4), Morning		
Solar-Heliospheric connection: energy release, triggering, prediction and impact of flares/CMEs and the solar wind on Earth (S3)		
08:30-08:55	Alexander Warmuth	CoSEE-Cat: constraining the acceleration and propagation of solar energetic electrons with Solar Orbiter (invited)
08:55-09:10	Nicole Vilmer	Connecting Energetic Electrons at the Sun and in the Heliosphere through X-ray and Radio Diagnostics
09:10-09:25	Tao Ding	The Giant Eruption in Solar Cycle 25
09:25-09:40	Alexey Kuznetsov	Multiwavelength observations of the 2024-02-16 solar flare: implications for the electron acceleration processes
09:40-09:55	Brigitte Schmieder	THEMIS new generation: Dynamics and MHD simulations of filaments
09:55-10:10	Weihang Zhang	Forward Modeling of Magnetic Energy Release Diagnosis during Solar Flares Based on the Magnetic-field-induced Transition Effect
10:10-10:40	Coffee Break	
10:40-10:55	Song Tan	SJET: An Interactive Solar Jet Extraction Tool for CoSEE-Cat Applications
10:55-11:10	Yingjie Luo	Energy-containing Electrons in Solar Flares: Enhancing Hard X-ray Observations and EUV Diagnostics
11:10-11:25	Chengming Tan	MUSER Observation and superfine solar radio bursts
11:25-11:40	Jingnan Guo	The new phenomenon of delayed arrival of faster solar energetic particles seen by Solar Orbiter
11:40-11:55	Yue Zhang	Waiting time distribution of solar flares in the super active region 13664 during its lifetime
11:55-12:10	Mikhail Demidov	On prediction of solar wind large-scale structures on the basis of new Chinese astro facilities
	Lunch	

September 18 (Day 4), Afternoon

Solar instrumentation and ground/space missions (S5)

14:00-14:25	Smitha Narayanamurthy	Sunrise III flight and early science highlights (invited and on-line)
14:25-14:50	Jorrit Leenaarts	Results from recent instrument upgrades at the Swedish 1-m Solar Telescope (invited)
14:50-15:15	Mingde Ding	The 2.5 meter solar telescope (invited)
15:15-15:40	Daniele Calchetti	Recent progress with PHI on board Solar Orbiter (invited)
15:40-16:00	Coffee Break	
16:00-16:25	Chuan Li	From CHASE to LAVSO – a Deep-space Mission for Solar Physics and Space Weather (invited)
16:25-16:50	Yang Su	ASO-S Mission: Status, Results, and Future Plans (invited)
16:50-17:15	Jiabben Lin	Chinese SPO mission (invited)
17:15-17:40	Liang Chang	The 8 meter Chinese Giant Solar Telescope (invited)
17:40-18:05	Wei Wang	On MUSER & IPS Telescope (invited)

September 19 (Day 5), Morning		
Session 4: Numerical modelling and machine learning (S4)		
08:30-08:55	Malcolm Druett	Review on Numerical modelling of solar flares (invited)
08:55-09:20	Yang Guo	Magnetic Field Observation and Modelling: Pre-research for SMT aboard LAVSO (invited)
09:20-09:35	Junyan Liu	Automatic Identification and Statistical Analysis of the Coronal Holes
09:35-09:50	Kyriakos Tapinou	Data-driven flux emergence with Athena++: comparison of boundary driving strategies
09:50-10:05	Hyun-Jin Jeong	Prediction of Time-evolving Magnetic Fields on the Solar Surface Using Deep Learning
10:05-10:35	Coffee Break	
10:35-11:00	Stefaan Poedts	Coupled, dynamic models for CME evolution in the solar atmosphere and the heliospheric wind and the gradual SEPs they cause (invited)
11:00-11:25	Chun Xia	Supergranulation as the key for the formation and eruption of quiescent solar prominences (invited)
11:25-11:40	Harry Birch	Towards a robust algorithm for prominence detection: Optimising the YOLOv5 object detection network for AIA 304 Å observations
11:40-11:55	Dibia Mishra	Plage Identification in Historic Suncharts via Neural Network Imaging Techniques
11:55-12:10	Haopeng Wang	Efficient and Quasi-realistic Magnetohydrodynamic Modeling of Dynamic Corona and Coronal Mass Ejections
	Closing and Lunch	

POSTERS

	Session 1: Solar interior, dynamo and the solar cycle
Chunyu Ji	Northern-Southern Hemispheric Differences and Evolution of Coronal Jets in cycle 24
Jie Jiang	Minimal Roles of Solar Subsurface Meridional Flow in the Distributed Babcock-Leighton Dynamo
Pengyu Jin	Periodic Behavior of Symmetric and Antisymmetric Magnetic Fields and Their Impacts on North-South Asymmetry
Benxu Niu	Origin of Sunspot Group Tilt Angles: Convection Zone or Solar Surface?
Valerii Pipin	Helicity Fluxes of Active Regions Emerging from the Convection Zone Dynamo
	Session 2, The solar atmosphere from the solar surface into the interplanetary space: heating, cooling, dynamics, turbulence
Jinrui Chang	Interaction between a Filament and Overlying Magnetic Field with Opposite Helicity Using NVST and SDO Data
Jie Chen	Small-Scale Eruptions on the Sun
Guanchong Cheng	3D magnetic reconnection mediated with plasmoids and the resulted multi-thermal emissions in the cool atmosphere of the Sun
Wenshuai Cheng	Inertial-range Turbulence Anisotropy of the Young Solar Wind from Different Source Regions
Yuhao Cheng	Limb shift of the FeI 6569 Å line due to granular motion
Jun Dai	End-view Observations of Large-amplitude Longitudinal Oscillations of a Quiescent Prominence
Xiyao Duan	A global multi-scale feature of photospheric magnetic fields observed through Hilbert spectral analysis
Yuhang Gao	Observation and modeling of propagating kink waves in the solar polar region
Mingzhe Guo	MHD waves and their applications in coronal seismology
Zhenyong Hou	Radio dimming associated with filament eruptions in the meter and decimeter wavebands
Jialiang Hu	QFP waves produced in the solar eruptions
Ruifei Huang	A study of quasi-periodic pulsations event and its physical origin
Haisheng Ji	Energy from intergranular lanes modulated by p-mode oscillation
Larisa Kashapova	The role of a coherent emission source in the energy release of the 09 October 2024 flare.
Ankit Kumar	Modeling of High-Frequency Magnetohydrodynamic (MHD) Waves and Oscillations in Coronal Loops: Implications for Coronal Heating and Magneto-seismological Applications
Leping Li	Coronal condensation and magnetic reconnection
Shuyue Li	Extreme Ultraviolet Wave and Quasi-periodic Pulsations during an M-class Flare on 2011 February 24
Shuyi Meng	Statistically Preferential Acceleration of Protons than Heavy Ions in the Solar Wind Measured by PSP, Solar Orbiter, and WIND
Youqian Qi	The Evolution of Granules and Intergranular Lanes with the Emergence of H α Jets

Fangfang Qiao	Origin and Fine Structure of sunspot bipolar light bridges in AR 13663
Jacob Oloketuyi	Temporal Behavior and Latitudinal Relationships Between Key Solar Parameters and Green-Line Emissions in the Solar Corona
Guiping Ruan	Transport of the magnetic flux away from a decaying sunspot via convective motions
Fanpeng Shi	Spatially Resolved Oscillations of a Flare Looptop X-Ray Source
Guanglu Shi	The Role of Far-side Magnetic Structures in Modeling 2024 Solar Eclipse
Wei Su	The Impact of Solar -- Terrestrial Plasma and Magnetic Field on the Detection of Space-borne Gravitational Wave Detections
Baolin Tan	Heating Mechanisms and Radio Response from the Solar Chromosphere to Corona
Guiping Ruan	Magnetic reconnection or waves as trigger of jets in solar atmosphere.
Hongyi Wang	Large numbers of Small Flux Ropes generated by interchange reconnection from coronal holes measured by Parker Solar Probe
Jiasheng Wang	Non-LTE Inversion of the H β 4861 Å Line for Chromospheric Magnetic Field measurement
Ruihui Wang	Solar Surface Magnetic Field Simulation from 2010 to 2024 and Anomalous Southern Poleward Flux Transport in Cycle 24
Yifu Wang	Numerical simulation of oscillatory magnetic reconnection modulated by solar convective motions
Yikang Wang	3D numerical simulations and spectra synthesis of the quiet-Sun chromosphere
Zi-Fan Wang	The power spectra of simulated emerging magnetic field at ephemeral region scale
Mehdi Yousefzadeh	Excited Emissions by Velocity Distribution of Energetic Electrons within Large-Scale Coronal Loop
Abdullah Zafar	MHD Simulations of Small-Scale Magnetic Reconnection At Different Altitudes In The Partially Ionized Low Solar Atmosphere
Ning Zhang	From Formation to Eruption of Quiescent Solar Prominence Driven by Supergranulations
Xiaofan Zhang	Responses of a Coronal Hole to a Fast Flare-Driven Coronal Wave
Yidian Wu	Witnessing a Transition from Coronal Rain to Prominence Condensation
Quan Xie	New Progress in Small-scale Photospheric Vortices
Haocheng Yu	Limb shift of the FeI 6569 Å line due to granular motion
	Session 3: Solar-Heliospheric connection: energy release, triggering, prediction and impact of flares/CMEs and the solar wind on Earth
Yi Bi	Observational Evidence for Fast-Mode Magnetoacoustic Waves in the Chromosphere During X-Class Solar Flares
Changxue Chen	Intense Hard X-ray Emissions in C-class Flares: A Statistical Study with ASO-S/HXI Data
Changliang Gao	The Impact of Solar Activity on Earth's Weather and Climate
Jingnan Guo	Radial dependence of solar energetic particle peak fluxes and fluences
Zhenyong Hou	Numerous bidirectionally propagating plasma blobs near the reconnection site of a solar eruption

Huidong Hu	Lateral Deformation of Coronal Mass Ejections in Non-radial to Radial Propagation
Dong Li	Localizing Flare QPPs in HXR, Microwave, Ly α , and White-light Emissions
HaitangLi	The Formation of a Multifilament System Driven by Photospheric Converging Motions in a Bipolar Sunspot
Hongrui Li	Observational Analysis of Counter-streaming Flows in a Forming Filament and Their Relationship with Local Heating at Filament Footpoints
Hao Liang	Thermal MHD simulation of eruptive MFR driven by collisional shearing
Yang Liu	Untwisting motion and bidirectional outflows of a filament
Jinhua Shen	Rapid spatio-temp evolution of vertical electric currents during an X-class flare
Viktoriia Smirnova	Multi-wavelength analysis of SOL2024-06-01T08:45 solar flare: electron acceleration and plasma heating
Hongqiang Song	A new explanation on the nature of the three-part structure of CMEs
Yongliang Song	Detection and Analysis of White-light Emission in Solar Flares through Light Curve Diagnostics
Hui Tian	Sun-as-a-star Spectroscopic Observations of mass ejections
Yuriy Tsap	Acceleration of quasi-thermal electrons and pre-flare plasma heating
Can Wang	Quantitative Analysis of the Formation of Magnetic Flux Rope in MURaM Simulation
Jincheng Wang	The formation and material supply mechanisms of Solar filaments
Wensi Wang	Quantitative study of solar erupting magnetic flux ropes in solar cycle 24
Ming Xiong	Data Calibration Of One New Giant IPS Radio Telescope Array Within The Meridian-II Space Weather Monitoring Project In China
Shangbin Yang	Solar eruptions - predictions based on modeling and observations of magnetic helicity
Jinge ZHANG	SOLER: Energetic Solar Eruptions – Data and Analysis Tools for the Heliophysics Community
Qingmin Zhang	Radio signatures of magnetic reconnection during a solar flare
Xiaomeng Zhang	Deflection of filament eruption in competing current channels
Qingtong Zhao	Filament Eruption Triggered by Magnetic Flux Emergence at the Footpoint
	Session 4: Numerical modelling and machine learning
Jun Chen	Parametric Study of Torus Instability Threshold
Huanxin Chen	Numerical simulation and statistical research: Supergranulations as the cause of solar prominence structures
Steven Hux	Estimation of Day-time Seeing Changes at Obs Sites Based on Neural Networks
Jiabao Lin	Application of Multimodal Large Language Model in Solar Physics
Tao Liu	The Data-Driven Simulation on the Formation of Active Region Filaments
Hanlin Guan	Formation of δ -Sunspots: Numerical Simulation of Flux Tube Emergence
Qi Hao	Developing Automated Detection, Tracking and Analysis Methods for Solar Activities via Machine Learning

Yulei Wang	Basic Pattern of Three-dimensional Magnetic Reconnection within Strongly Turbulent Current Sheets
Yuchuan Wu	Non-LTE synthesis and inversion of the Mg I 12.32 μm line
Ziqi Wu	Modeling Multiscale Transient Processes from Coronal Streamers to the Heliosphere
Mahdi Najafi-Ziyazi	Multifluid Modeling of the Solar Chromosphere
	Session 5: Solar instrumentation and ground/space missions
Patrick Antolin	Disambiguation of cool and hot emission in IRIS/Slit-Jaw Imager and AIA channels
Xianrong Bai	The Solar Upper Transition Region Imager (SUTRI) Onboard the SATech-01 satellite
Jun Lin	The Solar Close Observations and Proximity Experiments (SCOPE) mission
Feiyang Sha	Mapping ground-based coronagraphic images to Helioprojective-Cartesian coordinates system by image registration
Yingzi Sun	The First Solar Full - disk Vector Magnetograph Observing Network without Sunset