

IAU-390 Symposium
**A Multi-Point view of the Sun: Advances in Solar Observations and in
Space Weather Understanding**

Posters may be presented in-person or online.

All posters at the IAU GA 2024 are digital; no printed posters will be included.

The poster file should be a 1 page PDF, A1 size, **landscape** format (40 inch screens).

Deadline to submit poster: August 1

Submit your poster

- Go to your dashboard <https://app.oxfordabstracts.com/dashboard/events/5099>
- Under Poster submission section, click the EDIT button (the following fields on the form are read-only and cannot be edited: abstract title, abstract text, authors and affiliations)
- Fill in the Keywords for your poster
- upload the poster PDF file and submit the form

you may change and update your poster until the deadline.

How does the poster sessions works?

Each screen at the physical venue will display an A1 landscape poster in front of which the poster author can stand and meet people as they browse the posters in the traditional way. The significant difference, however, will be that each screen will also be a Zoom room with a camera and microphone. In this way, online participants can view the posters online and interact with the in-person poster author via zoom. In the case of virtual poster authors, the in person participants will browse their posters at the venue and engage with them via zoom rooms running on the digital poster screens. And similarly, virtual poster authors will engage virtual participants through zoom.

Smart TVs as poster screens are used, each equipped with a raspberry pi, basic webcam, mouse and keyboard.

As a poster author, here is how the E-posters will work.

1. Submit your poster PDF (A1 landscape) as described above
2. If you will be attending in-person, you will be allotted a date-time and physical screen number. At your scheduled time, you may proceed to your allotted poster screen which will have the zoom running for virtual participants to interact with you.
3. If you will be attending virtually, you will be allotted a date-time and zoom breakout room. At your scheduled time, you may proceed to your allotted zoom breakout room to interact with both in-person and virtual participants.
4. We will publish the list of posters and corresponding screen numbers as well as zoom breakout rooms.

Poster sessions (Time SAST, GMT+2):

- S390 P-1** August 6, 10:00 - 10:30 Session 2 - *Magnetic and wind connectivity science from the photosphere to the heliosphere*
- S390 P-2** August 6, 15:00 - 15:30 Session 2 - *Magnetic and wind connectivity science from the photosphere to the heliosphere*
- S390 P-3** August 7, 10:00 - 10:30 Session 3 - *The dynamic Sun: activity and eruptions*
- S390 P-4** August 7, 15:00 - 15:30 Session 4 - *The Sun-space weather connection*
- S390 P-5** August 8, 10:00 - 10:30 Session 4 - *The Sun-space weather connection*
- S390 P-6** August 8, 15:00 - 15:30 Session 5 - *Novel techniques for data analysis: machine learning and deep learning*
and Session 6 - *Lessons learned and future developments: toward a 4 view of the Sun*

	Name	Title	Virtual = Yellow
August 6, 10:00 - 10:30			
Session 2 - Magnetic and wind connectivity science from the photosphere to the heliosphere			
P1	Tsholofelo Kadiaka	Short term variations in the solar spectrum	
P1	Elena Dzifcakova	KAPPA package: Impact Multi-Ionization and Suppression of Dielectronic Recombination on the ionization equilibria for kappa-distributions	
P1	John Morgan	High resolution mapping of the inner heliosphere via ground-based, wide-field radio observations.	
P1	Divya Oberoi	Advances in Polarimetric Imaging of the Sun at Low Radio Frequencies	
P1	Onyinye Jerry-Okafor	Statistical Study of Solar Wind and Interplanetary Magnetic Field Parameters in Forbush Effects and Interplanetary Disturbances (FEID) during Solar Cycles 23 and 24 from 1996 to 2019	
P1	Renzo Ramelli	Highly precise spectropolarimetry with ZIMPOL at IRSOL and at GREGOR as a tool to study the structure and evolution of solar magnetic fields	

	Name	Title	Virtual = Yellow
August 6, 15:00 - 15:30			
Session 2 - Magnetic and wind connectivity science from the photosphere to the heliosphere			
P2	Alexei Struminsky	Acceleration rate of protons during solar flares	
P2	Mark Miesch	pyCAT: a Next-Generation Re-Imagining of NOAA/SWPC's CME Analysis Tool	
P2	Sanjiv Tiwari	Solar Orbiter/EUI Observations and Bifrost MHD Simulations of Fine-scale Bright Dots in Emerging Flux Regions	
P2	Tomasz Mrozek	Observations of kink-and-dissconnection solar failed eruption: 3D perspective.	
P2	Tomasz Mrozek	Triple coronal Hard X-Ray source observed by STIX during a failed eruption of a filament.	
P2	Hannah Schunker	Surface flows prior to active region emergence on the Sun	
P2	Yining Zhang	Quasi-periodic oscillations of flare loops and slipping motion along flare ribbons during a C-class flare	
P2	Irina Kitiashvili	Global Solar Activity Data Portal for Studying 3D Dynamics and Activity of the Sun	
P2	Alexander Kosovichev	Development of Solar Flare and Energetic Particle Prediction Portal (SEP3)	

	Name	Title	Virtual = Yellow
August 7, 10:00 - 10:30			
Session 3 - The dynamic Sun: activity and eruptions			
P3	Clementina Sasso	Preliminary results from Solar Orbiter Eruption Watch campaigns	
P3	AlShaimaa Hassanin	Recurrent Eruption and Formation of a Flux Rope by Flux Cancellation	
P3	Cecilia Mac Cormack	A multi-view study of consecutive CMEs observed by SoloHI during March 2022	
P3	Elena Dzifcakova	Si IV emission model of the response of the flare energy transport through the transition region	
P3	Nurul Husna Mohammad Bokhari	Probing the dynamical properties of new sub-type III solar radio burst (type VI)	
P3	Soham Dey	First robust detection of linear polarization from solar radio bursts	
P3	Diego Lloveras	Characterization of the source regions of high-latitude CMEs	
P3	Candela Sánchez	Multi-viewpoint Coronal Mass Ejection catalog: Testing the pipeline for a citizen science project.	
P3	Leonardo Di Lorenzo	A closer look at Streamer Blowout Coronal Mass Ejections: Multi-view analysis of morphology and kinematics	

	Name	Title	Virtual = Yellow
August 7, 15:00 - 15:30			
Session 4 - The Sun-space weather connection			
P4	Innocent Eya	On the distribution of Forbush decreases and their size classification	
P4	Pieter Kotze	Rieger Periodicity Variation in Solar Mg II Spectral Emission During Various Cycles	
P4	Jibrin Alhassan	What is the Effect of Solar Wind Disturbances on Small-Amplitude Simultaneous Forbush Events During Solar Cycle 23?	
P4	Alexei Struminsky	Search for phase of galactic cosmic ray variations in the 21-25 solar cycles	
P4	Hammed Lawal	Terrestrial Response to Solar Events; Investigation of Solar wind parameters during Solar Flare Occurrence in Solar Cycle 25	
P4	Martin Snow	High Precision, High Time-Cadence Measurements of the MgII Index of Solar Activity by the Extreme Ultraviolet Sensor Aboard the NOAA GOES-R Series	
P4	Amal Loutfi	Longitudinal variation of ionospheric electron density over 10 years provided by Swarm satellites.	

	Name	Title	Virtual = Yellow
August 8, 10:00 - 10:30			
Session 4 - The Sun-space weather connection			
P5	Juan Esteban Agudelo Ortiz	Applied Machine Learning methods for the synthesis and inversions of the Stokes parameters in the solar context	
P5	Edwin Beshel Ayabie	Astrophysical analysis of coronal mass ejections and cosmic rays during geomagnetic storms	
P5	Steven Penton	GHOTI: The GOES-R High-cadence Operational Total Irradiance project; using the EXIS SPS as a TSI proxy.	
P5	Arno Regg	Assessing Ionospheric Responses to Geomagnetic Storms with VLBI and VGOS	
P5	Victoria Samboco	SolarKAT: Imaging Pipeline for Solar Interference Mitigation in MeerKAT	
P5	Dibyendu Nandi	Simulating the Magnetospheric and Geomagnetic Impact of Coronal Mass Ejections	
P5	Vanessa Moss	Observing space weather events with the autonomous ASKAP radio telescope	
P5	Jingjing Wang	Upstream solar wind prediction up to Mrs by an operational solar wind prediction system	
P5	Marouane El Bahraoui	The first multi-year analysis of TEC results obtained at Oukaimeden Observatory. Study of the solar and geomagnetic activities on TEC behaviour	
P5	Noura Azebabad	Investigation of Solar and geomagnetic activities on thermospheric neutral temperature and neutral winds over Oukaimeden Observatory.	
P5	Sara Khodairy	Exploring the Impact of Space Weather Elements on Telemetry Metrics in Low Earth Orbit for Small Satellites	

	Name	Title	Virtual = Yellow
August 8, 15:00 - 15:30			
Session 5 - Novel techniques for data analysis: machine learning and deep learning			
Session 6 - Lessons learned and future developments: toward a 4 view of the Sun			
P6	James Wanliss	Multifractal Domain and Machine Learning for the Analysis of Space Weather	
P6	Madhulika Guhathakurta	Applied artificial intelligence for science & exploration enabled by public-private partnerships	
P6	Sami Solanki	Multi-point view of the Suns magnetic field: Results of co-observations by SO/PHI on Solar Orbiter with telescopes observing along the Sun-Earth line	
P6	Saida Milena Diaz Castillo	Exploring convolutional neural networks for classification and segmentation of evolving granular structures in the solar surface	
P6	Marcel Iten	ML-based Ionospheric TEC maps for enhanced K-band VLBI	
P6	J Todd Hoeksema	What Do We Know About the Suns Polar Fields?	