

IAUS 390 - A multi-point view of the Sun: advances in solar observations and in space weather understanding

Date		Aug-06				
Time SAST, GMT+2		Category	Name	Title	Type of participation	
10:00 - 10:30	Poster S390-1	Poster Session 2 - Magnetic and wind connectivity science from the photosphere to the heliosphere (see separate programme)				
10:30 - 10:40			Marco Romoli & Li Feng	Welcome		
10:30 - 12:00	Morning Oral Session S390-1 Chair: Li Feng	Session 1 - Synergetic science from space- and ground-based assets				
10:40 - 11:05	Invited		Stephanie Yardley Northumbria University, UK	Solar Orbiter & Parker Solar Probe: Multi-viewpoint messengers of the inner heliosphere	in person	
11:05 - 11:30	Invited		Beili Ying PBO, Beijing, China	ASO-S and synergies with space- and ground-based assets	in person	
11:30 - 11:55	Invited		Kasi Sankarasubramanian URSC, Bangalore, India	Synergy and Potential Science from coordinated observations with Aditya-L1 and other Observatories	in person	
12:00 - 13:30	Lunch					
13:30 - 15:00	Afternoon Oral Session 1 S390-2 Chair: Yeimi Rivera	13:30 - 14:00	Invited	Tom Schadt NSO, Makawao, HI, USA	Intersecting frontiers for ground- and space-based solar missions: symbiotic coordination between DKIST, PSP, and Solar Orbiter	virtual
		Session 2 - Magnetic and wind connectivity science from the photosphere to the heliosphere				
		14:00 - 14:30	Invited	Haruhisa Iijima Nagoya University, Japan	Bridging the solar interior and the solar wind with radiative MHD modeling	virtual
		14:30 - 14:45	Contributed	Javier Trujillo Bueno IMC, Tenerife, Spain	Exploring the magnetic fields of the upper solar chromosphere via ultraviolet spectropolarimetry	in person
		14:45 - 15:00	Contributed	Aidhawmya Sharma Bahona College, Jorhat, India	Height-Dependent Variations in Temperature and Non-Thermal Velocity in Fan Loops	virtual
15:00 - 15:30	Poster S390-2	Poster Session 2 - Magnetic and wind connectivity science from the photosphere to the heliosphere (see separate programme)				
15:30 - 17:00	Afternoon Oral Session 2 S390-3 Chair: Stephanie Yardley	15:30 - 16:00	Invited	Lucia Abbo INAF - OATo, Pino Torinese, Italy	Sources of the slow solar wind and the role of the coronal magnetic field topology	in person
		16:00 - 16:30	Invited	Yeimi Rivera CfA, Cambridge, MA, USA	Energization of Alfvénic slow speed solar wind	in person
		16:30 - 16:45	Contributed	Piyali Chatterjee IA, Bangalore, India	Solar wind near coronal streamer structures using 3D MHD simulations in spherical geometry	in person
		16:45 - 17:00	Contributed	Sanjay Gosain NSO, Tucson, AZ, USA	Estimation of projection effects in near-limb solar magnetic flux measurements: Advantage of Multi-viewpoint Observations	virtual

Date		Aug-07				
Time SAST, GMT+2		Category	Name	Title	Type of participation	
10:00 - 10:30	Poster S390-3	Poster Session 3 - The dynamic Sun: activity and eruptions (see separate programme)				
10:30 - 12:00	Morning Oral Session S390-4 Chair: Clementina Sasso	Session 3 - The dynamic Sun: activity and eruptions				
10:30 - 10:45	Contributed		Maria Valeria Sleyra CSA, Paris, France	Characterising solar eruptions through data-constrained MHD simulations	in person	
10:45 - 11:10	Contributed		Devoiyoti Kanabank UCAR, Boulder, CO, USA	Measuring Magnetic Fields of Coronal Mass Ejection in Corona and Inner Heliosphere using Wide Field of View Spectropolarimetric Radio Imaging	in person	
11:00 - 11:15	Contributed		Navdeep Panesar BAERI, CA, USA	The Magnetic Origin of Solar Campfires: Solar Orbiter and SDO Observations	in person	
11:15 - 11:45	Invited		Marianna Korsos Università di Catania, Italy	Models for Long-Term and Short-Term Flare Prediction - M. Korsos	in person	
11:45 - 12:00	Contributed		Cecilia MacCormack CUA, Washington, DC, USA	Multi-view and multi-point CME Catalog based in SoloHI observations	in person	
12:00 - 13:30	Lunch					
13:30 - 15:00	Afternoon Oral Session 1 S390-5 Chair: Sami Solanki	13:30 - 13:45	Contributed	Abigail Mthethwa SANSO, Hermanus, South Africa	Can the Geostationary Operational Environmental Satellite's (GOES) ultraviolet measurements predict the X-ray properties of solar flares?	in person
		13:45 - 14:00	Contributed	Radoslaw Bučik SWRI, San Antonio, TX, USA	Magnetic Field Properties of Solar Sources of Impulsive Solar Energetic Particle Events	virtual
		14:00 - 14:30	Invited	Angelos Vourlidis JHAPL, Laurel, MD, USA	Improving the Medium-Term Forecasting of Space Weather: A Big Picture Review	virtual
		14:30 - 15:00	Invited	Vincent Ledvina University of Alaska, Fairbanks, AK, USA	How open data and interdisciplinary collaboration improve our understanding of space weather: A risk and resiliency perspective	in person
15:00 - 15:30	Poster S390-4	Poster Session 4 - The Sun-space weather connection (see separate programme)				
15:30 - 17:00	Afternoon Oral Session 1 S390-6 Chair: Martin Snow	15:30 - 16:00	Invited	Nondumiso Khumalo SANSO, Hermanus, South Africa	The radiation effort at SANSO Space Weather center and as an ICAO-designated regional warning center	in person
		16:00 - 16:15	Contributed	Qiao Song CMA, Beijing, China	Analysis of coronal holes and their impact on space weather based on FengYun-3E X-EUVI data	in person
		16:15 - 16:30	Contributed	Tshimangadzo Matamba SANSO, Hermanus, South Africa	Space Weather Effects on the Ionosphere of Earth	in person
		16:30 - 16:45	Contributed	Adriana Vallo Mackenzie University, São Paulo, Brazil	Space weather impact of three solar flares observed by the POEMAS telescope at 45 and 90 GHz	in person
		16:45 - 17:00	Contributed	Bhargav Vaidya IIT, Indore, India	Geo-effectiveness of CME-CME interaction events: An ensemble study using SWASTI framework	in person

Date		Aug-08				
Time SAST, GMT+2		Category	Name	Title	Type of participation	
IAUS Plenary Talk	08:30 - 10:00	Invited	Sarah Gibson NCAR, Boulder, CO, USA	Beyond Flatland: A Star of Many Dimensions	in person	
10:00 - 10:30	Poster S390-5	Poster Session 5 - The Sun-space weather connection (see separate programme)				
10:30 - 12:00	Morning Oral Session S390-7 Chair: Hour Raouafi	Session 4 - The Sun-space weather connection (continue)				
10:30 - 10:45	Contributed		Emily Kerrison University of Sidney, Australia	2,000 years of twinkling: lessons learned from a brief history of astronomical scintillation	in person	
10:45 - 11:00	Contributed		Yoshita Baruah ISER, Kolkata, India	A Detailed Sun-to-Earth Investigation of the Space Weather Conditions that Triggered the Loss of the Starlink Satellites in February 2022	in person	
11:00 - 11:15	Contributed		Emma Perracchione Politecnico di Torino, Italy	Forecasting Geoeffective Events and Evaluating the Most Predictive Features through new Classifier-Dependent Ranking Scheme	in person	
11:15 - 11:45	Invited		Anna Maria Massone Università di Genova, Italy	Machine learning techniques for solar physics and space weather	in person	
11:45 - 12:00	Contributed		Robert Jarolim HAO, Boulder, CO, USA	Sun Neural Radiance Fields: From Images to 3D Reconstructions of the Solar Atmosphere	in person	
12:00 - 13:30	Lunch					
13:30 - 15:00	Afternoon Oral Session 1 S390-8 Chair: Anik De Groof	13:30 - 13:45	Contributed	Spyros Kasapis NASA/JSC, Houston, TX, USA	Examining the Ability of Machine Learning Models to Predict SEP Events Utilizing Two Solar Cycles of Observations	in person
		13:45 - 14:00	Contributed	Mattia Rossi Università di Genova, Italy	Machine Learning-Based Dynamics of Interplanetary Coronal Mass Ejections using Deterministic Models	in person
		Session 6 - Lessons learned and future developments: toward a 4n view of the Sun				
		14:00 - 14:30	Invited	Noureddin Raouafi JHUAPL, Laurel, MD, USA	The Firefly (4n) Constellation: Going Above and Beyond in the Heliosphere Exploration	in person
		14:30 - 14:45	Contributed	Deng Yuanrong MAD, CAS, Beijing, China	Introduction to the Solar Polar-orbit Observatory (SPO)	in person
		14:45 - 15:00	Contributed	Mariaki Nitto LMSAL, Palo Alto, CA, USA	Benefits of Multi-point Observations of the Sun	in person
15:00 - 15:30	Poster S390-6	Poster Session 5 - Novel techniques for data analysis: machine learning and deep learning Poster Session 6 - Lessons learned and future developments: toward a 4n view of the Sun (see separate programme)				
15:30 - 17:00	Afternoon Oral Session 1 S390-8 Chair: Sarah Gibson	15:30 - 15:45	Contributed	Don Hassler SWRI, Boulder, CO, USA	The Solaris Mission: A focused solar polar view from outside the ecliptic plane	in person
		15:45 - 16:00	Contributed	Silvano Fineschi INAF - OATo, Pino Torinese, Italy	The Upcoming Age of New Space Coronagraphs: Perspectives for Joint Science with ASPICS, CODEX, and Metis	in person
		16:00 - 16:15	Contributed	Jun Lin YAO, Kunming, China	Solar Close Observation and Proximity Experiments (SCOPE) Mission Concept	in person
		16:15 - 16:30	Contributed	Dipankar Banerjee IA, Bangalore, India	Co-ordinated observing plans for Aditya L1 and other space platforms	in person
		16:30 - 17:00	Round table discussion			