

Session 2 – PRESTO Pillar 1: Sun, Planetary Space, and Geospace  
 Conveners: Allison Jaynes, Emilia Kilpua, Spiros Patsourakos, Nandita  
 Srivastava

**Day 1: February 21, 2022**

Day 1-Time Slot 3 (D1-TS3): February 21, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b>Session Chair(s):</b> Emilia Kilpua, Spiros Patsourakos, Nandita Srivastava		
GMT	IST	Title of the Abstract
1100 – 1120	1630 – 1650	Abstract ID: STP15-ABS-182 Title: Prediction of Solar Flares and Predictive Diagnostics of Related Eruptive Manifestations <i>Presenting Author: Manolis Georgoulis (Invited)</i>
1120 – 1135	1650 – 1705	Abstract ID: STP15-ABS-314 Title: Measuring CME/iCME magnetic fields using Faraday rotation observations <i>Presenting Author: Divya Oberoi</i>
1135 – 1150	1705 – 1720	Abstract ID: STP15-ABS-219 Title: A Scheme to Obtain the Planeteffectiveness of Coronal Mass Ejections Based on Inferences of their Near-Sun Magnetic Field <i>Presenting Author: Spiros Patsourakos</i>
1150 – 1200	1720 – 1730	Abstract ID: STP15-ABS-203 Title: Estimation of Coronal Magnetic Field From a Band Splitting Type-II Solar Radio Burst <i>Presenting Author: Vasanth V</i>
1200 – 1210	1730 – 1740	Abstract ID: STP15-ABS-308 Title: Sympathetic Quiet and Active Region Filament Eruptions <i>Presenting Author: Kostadinka Koleva</i>
1210 – 1220	1740 – 1750	Abstract ID: STP15-ABS-204 Title: Determination of the CME core parameters observed on 22 August 2015 with UTR-2 <i>Presenting Author: Mykola Shevchuk</i>
1220 – 1250	1750 – 1820	Breakout Session

Day 1-Time Slot 5 (D1-TS5): February 21, 2022 – GMT 1440 – 1630 IST 2010 – 2200		
<b>Session Chair(s):</b> Emilia Kilpua, Spiros Patsourakos, Nandita Srivastava		
GMT	IST	Title of the Abstract
1440 – 1500	2010 – 2030	Abstract ID: STP15-ABS-248 Title: Evolution of Interplanetary Coronal Mass Ejection Complexity: Numerical and Observational Insights

		<i>Presenting Author: Camilla Scolini (Invited)</i>
1500 – 1515	2030 – 2045	Abstract ID: STP15-ABS-117 Title: High-energy solar measurements for solar flare analysis <i>Presenting Author: Thomas Chen</i>
1515 – 1530	2045 – 2100	Abstract ID: STP15-ABS-145 Title: Radio emission bursts as predictors for solar energetic particles: Electrons vs. Protons <i>Presenting Author: Rositsa Miteva</i>
1530 – 1540	2100 – 2110	Abstract ID: STP15-ABS-289 Title: Modelling Particle Drift Effects in the Heliosphere Over the Solar Cycle <i>Presenting Author: Timothy Mohlolo</i>
1540 – 1550	2110 – 2120	Abstract ID: STP15-ABS-175 Title: Contribution of ion-acoustic turbulence to thermal conductivity in electron temperature jumps of the Solar atmosphere <i>Presenting Author: Petr Besspalov</i>
1550 – 1600	2120 – 2130	Abstract ID: STP15-ABS-276 Title: Space Weather study through multi-observation and analysis of Solar transients phenomena and associated interplanetary space plasma dynamics <i>Presenting Author: Theogene Ndacyayisenga</i>
1600 - 1630	2130 – 2200	Breakout Session

## Day 2: February 22, 2022

Day 2-Time Slot 1 (D2-TS1): February 22, 2022 – GMT 0300 – 0450 IST 0830 – 1020		
<b>Session Chair(s):</b> Allison Jaynes, Nandita Srivastava		
GMT	IST	Title of the Abstract
0300 – 0320	0830 – 0850	Abstract ID: STP15-ABS-344 Title: Modeling Heliospheric Flux Ropes <i>Presenting Author: Teresa Nieves-Chinchilla (Invited)</i>
0320 – 0335	0850 – 0905	Abstract ID: STP15-ABS-176 Title: Estimation of long-term variance in coronal rotation period using F10.7 and F11.1 radio emission <i>Presenting Author: Satish Chandra</i>
0335 – 0350	0905 – 0920	Abstract ID: STP15-ABS-027 Title: Why does the “solid-body” aerodynamic drag law work for CMEs? <i>Presenting Author: Debesh Bhattacharjee</i>
0350 – 0400	0920 – 0930	Abstract ID: STP15-ABS-156 Title: Hemispheric asymmetry in solar coronal rotation and solar activity <i>Presenting Author: Jaidev Sharma</i>
0400 – 0410	0930 – 0940	Abstract ID: STP15-ABS-151

		Title: Results from Coronal Radio sounding experiment conducted during 2015 Mars-Solar conjunction by Indian Mars Orbiter Mission (MOM) <i>Presenting Author: Richa Jain</i>
0410 – 0420	0940 – 0950	Abstract ID: STP15-ABS-177 Title: Magnetohydrodynamic simulations of the impact of a coronal mass ejection on the global magnetosphere <i>Presenting Author: Souvik Roy</i>
0420 – 0450	0950 – 1020	Breakout Session

Day 2-Time Slot 2 (D2-TS2): February 22, 2022 – GMT 0450 – 0640 IST 1020 – 1210		
<b>Session Chair(s):</b> Allison Jaynes, Nandita Srivastava		
GMT	IST	Title of the Abstract
0450 – 0505	1020 – 1035	Abstract ID: STP15-ABS-250 Title: An evaluation of observational features of Coronal Mass Ejections (CMEs) and their geo-effectiveness during Solar Cycles 23 and 24 <i>Presenting Author: Priyank Srivastava</i>
0505 – 0520	1035 – 1050	Abstract ID: STP15-ABS-295 Title: Remote measurements of magnetic field of coronal mass ejections at higher coronal heights using high fidelity spectro-polarimetric low-frequency radio images <i>Presenting Author: Devojjyoti Kansabanik</i>
0520 – 0535	1050 – 1105	Abstract ID: STP15-ABS-054 Title: Helium abundance in solar wind and coronal mass ejections <i>Presenting Author: Yogesh Y</i>
0535 – 0550	1105 – 1120	Abstract ID: STP15-ABS-047 Title: Analysis of characteristic properties and Fe/O ratio of Solar Energetic Particle Event on 04/08/2011 at 1 AU <i>Presenting Author: Biji M S</i>
0550 – 0600	1120 – 1130	Abstract ID: STP15-ABS-055 Title: Variations in the suprathermal populations in the solar wind during solar cycles 23 and 24 <i>Presenting Author: Bijoy Dalal</i>
0600 – 0610	1130 – 1140	Abstract ID: STP15-ABS-267 Title: Estimation and comparison of solar rotation estimated by autocorrelation and Lomb-Scargle periodogram analysis <i>Presenting Author: Vivek Singh</i>
0610 - 0640	1140 – 1210	Breakout Session

Day 2-Time Slot 3 (D2-TS3): February 22, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b>Session Chair(s):</b> Allison Jaynes, Spiros Patsourakos, Nandita Srivastava		
GMT	IST	Title of the Abstract
1100 – 1115	1630 – 1645	Abstract ID: STP15-ABS-357 Title: Developing the ESA Space Weather Service Network <i>Presenting Author: Alexi Glover (Invited)</i>
1115 – 1130	1645 – 1700	Abstract ID: STP15-ABS-326 Title: Lunar Space Weather: A Chandrayaan-2 perspective <i>Presenting Author: Srikar Tadepalli</i>
1130 – 1145	1700 – 1715	Abstract ID: STP15-ABS-122 Title: Magnetosheath jets found in CLUSTER data at solar minimum and their dynamical properties (2007, 2008) <i>Presenting Author: Mirela Voiculescu</i>
1145 – 1200	1715 – 1730	Abstract ID: STP15-ABS-118 Title: Solar wind phenomena affecting turbulence dynamics in the magnetosheath <i>Presenting Author: Liudmila Rakhmanova</i>
1200 – 1210	1730 – 1740	Abstract ID: STP15-ABS-107 Title: Solar Eclipse induced variations in the complexity of Magnetosphere – Two case studies <i>Presenting Author: Sajith Babu S</i>
1210 – 1220	1740 – 1750	Abstract ID: STP15-ABS-269 Title: Thresholds for Spacecraft Charging in a non-extensive Plasma <i>Presenting Author: Nazish Rubab</i>
1220 – 1250	1750 – 1820	Breakout Session

Day 2-Time Slot 5 (D2-TS5): February 22, 2022 – GMT 1440 – 1630 IST 2010 – 2200		
<b>Session Chair(s):</b> Spiros Patsourakos, Nandita Srivastava		
GMT	IST	Title of the Abstract
1440 – 1500	2010 – 2030	Abstract ID: STP15-ABS-184 Title: Modelling solar eruptions: from observations to EUHFORIA model simulations <i>Presenting Author: Eleanna Asvestari (Invited)</i>
1500 – 1515	2030 – 2045	Abstract ID: STP15-ABS-193 Title: Particle acceleration and its consequences in ICME shocks <i>Presenting Author: Shanwlee Sow Mondal</i>
1515 – 1525	2045 – 2055	Abstract ID: STP15-ABS-171

		Title: Magnetic Reconnection and Particle Acceleration and its Influence on Space Weather <i>Presenting Author: Arghyadeep Paul</i>
1525 – 1535	2055 – 2105	Abstract ID: STP15-ABS-306 Title: Physics-based Algorithm for Space Weather using Adaptive Numerical Framework contemplating ADITYA-L1 <i>Presenting Author: Prateek Mayank</i>
1535 – 1545	2105 – 2115	Abstract ID: STP15-ABS-003 Title: Study the trajectory of dust particles by simulating the plasma environment on the Moon's surface <i>Presenting Author: Mohamad Abdelaal</i>
1545 - 1630	2115 – 2200	Breakout Session

### **Day3: February 23, 2022**

Day 3-Time Slot 1 (D3-TS1): February 23, 2022 – GMT 0300 – 0450 IST 0830 – 1020		
<b>Session Chair(s):</b> Allison Jaynes, Nandita Srivastava		
GMT	IST	Title of the Abstract
0300 – 0315	0830 – 0845	Abstract ID: STP15-ABS-090 Title: Relativistic electron microbursts as high-energy tail of pulsating aurora electrons: Impacts on the middle atmosphere <i>Presenting Author: Yoshizumi Miyoshi</i>
0315 – 0330	0845 – 0900	Abstract ID: STP15-ABS-270 Title: Energetic Electron Flux Enhancements in the Earth's Radiation Belt associated with Corotating Interaction Region (CIR) events <i>Presenting Author: Smitha Thampi</i>
0330 – 0345	0900 – 0915	Abstract ID: STP15-ABS-352 Title: Boundaries, barriers, and build-ups: ULF wave-driven dynamics of energetic particles in the Van Allen belts <i>Presenting Author: Allison Jaynes</i>
0345 – 0400	0915 – 0930	Abstract ID: STP15-ABS-287 Title: Substorm and associated magnetic field dipolarization signatures in the inner magnetosphere and related ion flux variations using Van Allen Probes and Arase observations <i>Presenting Author: Trunali Shah</i>
0400– 0415	0930 – 0945	Abstract ID: STP15-ABS-222 Title: A comparative study on electron contribution to the ring current during CME and CIR driven geomagnetic storms using RAM-SCB simulations and Arase and ground magnetic data

		<i>Presenting Author: Sandeep Kumar</i>
0415 – 0430	0945 – 1000	Abstract ID: STP15-ABS-091 Title: Statistical analysis of quasi-periodic ELF/VLF emissions using longitudinal multi-point ground observations <i>Presenting Author: Tomoka Oonishi</i>
0430 – 0450	1000 – 1020	Breakout Session

Day 3-Time Slot 2 (D3-TS2): February 23, 2022 – GMT 0450 – 0640 IST 1020 – 1210		
<b>Session Chair(s):</b> Allison Jaynes, Nandita Srivastava		
GMT	IST	Title of the Abstract
0450 – 0505	1020 – 1035	Abstract ID: STP15-ABS-045 Title: Latest results from the PWING project: study of dynamical variation of particles and waves in the inner magnetosphere using ground-based network observations <i>Presenting Author: Kazuo Shiokawa</i>
0505 – 0520	1035 – 1050	Abstract ID: STP15-ABS-101 Title: The importance of multi-point ground and space conjugated events in understanding the characteristics of ELF/VLF waves. <i>Presenting Author: Claudia Martinez-Calderon</i>
0520 – 0535	1050 – 1105	Abstract ID: STP15-ABS-094 Title: Statistics and temporal development of longitudinal extent of Pc1 pulsations using seven PWING ground stations at subauroral latitudes <i>Presenting Author: Jie Liu</i>
0535 – 0545	1105 – 1115	Abstract ID: STP15-ABS-167 Title: Observation of Magnetosonic waves in outer magnetosphere associated with EMIC waves by THEMIS probe <i>Presenting Author: Satyavir Singh</i>
0545 – 0555	1115 – 1125	Abstract ID: STP15-ABS-042 Title: Substorms on a contracted auroral oval and their mid-latitude magnetic effects: Case study <i>Presenting Author: Irina Despirak</i>
0555 – 0605	1125 – 1135	Abstract ID: STP15-ABS-165 Title: Rapid growth of EMIC wave subpackets: Multipoint observations <i>Presenting Author: Biswajit Ojha</i>
0605 – 0615	1135 – 1145	Abstract ID: STP15-ABS-041 Title: Supersubstorms and the eastward electrojet: Case study <i>Presenting Author: Irina Despirak</i>
0615 – 0640	1145 – 1210	Breakout Session