

## ASI2022 - List of selected abstracts in Sun and the Solar System

NAME	CONFERENCE ID	AFFILIATION	TITLE	Abstract Type SOC
Durgesh Tripathi	ASI2022_774	IUCAA	On the heating and dynamics of Solar Transition Region	Invited
Piyali Chatterjee	ASI2022_539	Indian Institute of Astrophysics	The solar spicule conundrum	Invited
Ramit Bhattacharyya	ASI2022_498	Physical Research Laboratory	Simulating source region dynamics of solar coronal transients: progress and challenges	Invited
Vaibhav Pant	ASI2022_433	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	How Does Transverse MHD Wave-driven Turbulence Influence the Density Filling Factor in the Solar Corona?	Invited
Anshu Kumari	ASI2022_440	University of Helsinki	Effects of optimisation parameters on data-driven magnetofrictional modelling	Oral
Arpit Shrivastav	ASI2022_248	Aryabhata Research Institute of Observational Sciences	Coronal rain : Effect on Transverse Oscillations of Coronal loops & Thermal evolution	Oral
Dibya Kirti Mishra	ASI2022_238	ARIES,NAINITAL	Study of Chromospheric Differential Rotation of the Sun using Ca II K Data	Oral
Jayant Joshi	ASI2022_657	Indian Institute of Astrophysics	Properties of ubiquitous magnetic reconnection events in the lower solar atmosphere	Oral
Kamlesh Bora	ASI2022_190	Udaipur Solar Observatory, Physical Research Laboratory	Comparison of the Hall MHD and MHD evolution of a flaring solar active region	Oral
Kartika Sangal	ASI2022_375	Indian Institute of technology (BHU), Varanasi	Study of the Transition region (TR) Oscillations in the Quiet-Sun as seen by IRIS	Oral
Lakshitha Nama	ASI2022_242	CHRIST (Deemed to be University)	Elemental abundances during the A-class solar flares: Soft X-ray spectroscopy from Chandrayaan-2 XSM	Oral
Lokesh Mishra	ASI2022_179	University of Geneva	Classifying the architecture of planetary systems	Oral
Megha Anand	ASI2022_325	Inter-University Centre for Astronomy and Astrophysics	Mg II core-to-wing ratio and its center to limb variation in sunspots from IRIS	Oral
Pawan Kumar	ASI2022_106	Indian Institute of Technology BHU Varanasi	How early can we predict the solar cycle strength reliably using the polar precursor method?	Oral
Prateek Mayank	ASI2022_50	Indian Institute of technology, Indore	Physics-based Algorithm for Solar Wind using Adaptive Numerical Framework	Oral
Ranadeep Sarkar	ASI2022_731	University of Helsinki, Finland	Studying the spheromak tilting instability for realistic CME modelling with EUHFORIA	Oral
Satabdwa Majumdar	ASI2022_437	Indian Institute of Astrophysics	A study of volumetric evolution of CMEs and constraints on our present understandings	Oral
Shaonwita Pal	ASI2022_673	IISER KOLKATA - CESSI	Impact of Anomalous Active Regions on the Large Scale Magnetic Fields of the Sun	Oral

Soumya Roy	ASI2022_205	Inter-University Centre for Astronomy and Astrophysics	Solar Ultraviolet Imaging Telescope (SUIT) Forward Modelling	Oral
Sudip Mandal	ASI2022_471	Max Planck Institute for Solar System Research	Propagating campfires: Observations from Solar Orbiter/EUI	Oral
Aalok Pandya	ASI2022_84	Department of Physics, Indira Gandhi National Tribal University, Amarkantak 484887 India	Variation in Cosmic Ray Flux during Solar Eclipse on 21 June, 2020	Poster
Abhinav Prasad	ASI2022_552	Indian Institute of Technology, Varanasi (IIT-BHU)	Role of Heating-Cooling Misbalance on the Properties of Slow Magnetoacoustic Waves	Poster
Abhishek Rajhans	ASI2022_544	Inter-University Centre for Physics and Astrophysics, Pune	Flows in Enthalpy Based Thermal Evolution of Loops	Poster
Adithya HN	ASI2022_695	Young Innovators, Bengaluru ,India and Institute for Space Earth-Environmental , Nagoya University, Japan	Study of DEM Temperature Variability of Coronal Features in comparison with filter ratio method of Spatially Resolved Images fro	Poster
Akash Biswas	ASI2022_105	Indian Institute of Technology (BHU), Varanasi	Theoretical modelling of the properties of the latitudinal distribution of sunspot bands	Poster
Anisha Sen	ASI2022_452	Indian Institute of Astrophysics	Contributions of Spot, Plage and Network Magnetic Fields to RV fluctuations from Sun-as-a-star Spectra in Exoplanet Studies	Poster
Antony Soosaleon	ASI2022_715	Mahatma Gandhi University	Theory of Corona Emissions	Poster
Anu B Sreedevi	ASI2022_109	Indian Institute of Technology (BHU)	Tracking of Bipolar Magnetic Regions Using an Automatic Algorithm: Initial Results of Tilt, Flux and Field Strength	Poster
Aravind K	ASI2022_244	Physical Research Laboratory, Ahmedabad	Optical polarimetric study of cometary dust	Poster
Arghyadeep Paul	ASI2022_339	Indian Institute of Technology Indore	Magnetic Reconnection and Particle Acceleration in Highly Elongated Current Sheets: A Coronal and Magnetospheric Perspective	Poster
Arun Kumar Awasthi	ASI2022_637	University of Science and Technology of China, Hefei, China	Effects of supra-arcade down flows interacting with the post-flare arcade	Poster
Balveer Singh	ASI2022_404	Indian Institute of Technology (Banaras Hindu University), Varanasi-221005 India	Numerical Simulation of Impulsive Cool Jets in the Sun's Atmosphere	Poster
Bhuwan Joshi	ASI2022_681	Physical Research Laboratory	On the formation and eruption of a magnetic flux rope and the flare-CME association: SDO and Udaipur-CALLISTO observations	Poster

Bibhuti Kumar Jha	ASI2022_210	Aryabhata Research Institute of Observational Sciences and Indian Institute of Astrophysics	A Theoretical Model of the Near–Surface Shear Layer of the Sun	Poster
Biswajit Mondal	ASI2022_752	Physical Research Laboratory	Role of small-scale impulsive events in heating the X-ray bright points of the Sun -- insights from Ch-2/XSM observations.	Poster
Chaitanya Prasad Sishtla	ASI2022_710	University of Helsinki	Flux tube dependent propagation of Alfvén waves in the solar corona	Poster
Deepthi Ayyagari	ASI2022_707	Indian Institute of Technology Indore	Ionospheric Scintillation Intensity Fading studies at low latitude region using NavIC	Poster
Devojyoti Kansabanik	ASI2022_40	National Centre for Radio Astrophysics, Tata Institute of Fundamental Research, Pune, India	Towards measuring coronal magnetic field using high fidelity low-frequency spectro-polarimetric radio imaging with SKA precursor	Poster
Divya Oberoi	ASI2022_35	NCRA-TIFR	Understanding Weak Impulsive Narrowband Quiet Sun Emissions (WINQSEs)	Poster
Dr BHUPENDRA KUMAR TIWARI	ASI2022_652	DEPARTMENT OF PHYSICS ,A.P.S.UNIVERSITY REWA M.P.	Dependence of intensity of Galactic cosmic rays on heliospheric parameters	Poster
Elizabeth Thomas	ASI2022_130	Mar Thoma College, Tiruvalla, Kerala, India	Periodicity of Sunspot Number and Rainfall over Kerala using Wavelet Analysis	Poster
Jagannath Mahapatra	ASI2022_207	Institute for Plasma Research	2D evolution of shear flow driven magnetic reconnection in the island coalescence instability	Poster
Jyoti Sheoran	ASI2022_317	Aryabhata Research Institute of Observational Sciences, Nainital	Thermodynamics of Coronal Mass Ejections in the inner corona	Poster
Maya Prabhakar	ASI2022_310	Indian Institute of Astrophysics	Coronal active regions' line profile studies from Hinode/EIS in Fe XII 195.12 Å	Poster
Mitali Kabra	ASI2022_93	Crux View Center	Modern Classification for Eclipses and Occultation for different Syzygies created by Exo-Planetary Systems	Poster
Nikunj Rathi	ASI2022_86	Crux View Center	Tidal Heating: Effect of Balanced or Unbalanced Forces?	Poster
Nitin Vashishtha	ASI2022_485	Aryabhata Research Institute of Observational Sciences	Numerical simulations and forward modelling of a breakout CME	Poster
Pooja Devi	ASI2022_178	Kumaun University, Nainital	Prominence eruption and loop contraction on 02 March 2015	Poster
Pramod Kumar	ASI2022_159	S. S. Jain Subodh P. G. (Autonomous) College, Jaipur, Rajasthan, India	A study on various modes of parallel heat conduction in the solar flares using scaling laws	Poster

Prithish Halder	ASI2022_45	Indian Institute of Astrophysics, Bangalore	Crafting Cosmic Dust from Ellipsoids	Poster
Prithvi Raj Singh	ASI2022_353	S.S. Khanna Girls Degree College, Prayagraj and Banaras Hindu University, Varanasi	Rotational Period and Heliospheric Modulation of Solar Activity during Time epoch 2012 to 2015	Poster
Ramesh Chandra	ASI2022_148	Kumaun University, Nainital	Multi-Viewpoint Observations of an EUV Wave Event	Poster
Ranjan Kumar	ASI2022_398	Dept. of Physics and Astronomy, NIT Rourkela	An investigation of post-RGB evolution of low mass stars in Galactic globular cluster M68	POSTER (will be moved to "Stars, ISM And Galaxy")
Raveena Khan	ASI2022_461	Indian Institute of Astrophysics	Potential UV spectral lines for coronal magnetic field measurements	Poster
Ritesh Patel	ASI2022_523	ARIES Nainital	A Simple Radial Gradient Filter for batch-processing of Coronagraph images	Poster
Safna Banu K	ASI2022_43	Research Scholar, National Institute of Technology, Calicut	AN OBSERVATION OF PLASMOID EJECTION AND CORONAL LOOP OSCILLATION	Poster
Sahel Dey	ASI2022_315	Indian Institute of Astrophysics & Indian Institute of Science	A new mechanism of Spinning Solar Spicules from MHD Simulations	Poster
Samriddhi Sankar Maity	ASI2022_359	Indian Institute of Astrophysics and Indian Institute of Science	Simulation of solar coronal mass ejections due to twisted flux rope emergence	Poster
Sana Ahmed	ASI2022_511	Physical Research Laboratory	The Interstellar Comet 2I/Borisov: Insights of Modeling the Cometary Coma	Poster
Sanghita Chandra	ASI2022_683	Indian Institute of Science Education and Research, Kolkata	Periodic behavior driven by meridional circulation during solar grand minima episodes	Poster
Sarvesh Gharat	ASI2022_661	Vishwakarma Institute of Information Technology Pune	A Deep Learning approach to identify Solar Plages	Poster
Satyam Agarwal	ASI2022_185	Udaipur Solar Observatory (Physical Research Laboratory)	Extrapolation models and their effect on the magnetic reconnection	Poster
Shishir Biswas	ASI2022_746	Institute For Plasma Research	Dynamics of a novel quasi-recurrent flow in 3D MHD plasmas	Poster
Soumyaranjan Khuntia	ASI2022_399	Indian Institute of Astrophysics Bangalore	Probing the thermodynamical state of a CME during its propagation in the heliosphere	Poster
Souvik Roy	ASI2022_604	Center of Excellence in Space Science India, IISER Kolkata	Characteristics study of the impact of coronal mass ejections on the planetary magnetosphere using MHD simulations.	Poster
Sudheer Mishra	ASI2022_211	Indian Institute of Astrophysics, Bangalore	Evolution of Kelvin-Helmholtz Instability in Solar Atmosphere	Poster
Susanta Kumar Bisoi	ASI2022_748	National Institute of Technology Rourkela	The Origin of Extremely Non-radial Solar wind Outflows	Poster

Tanushree Bhattacharya	ASI2022_129	Indian Association for the Cultivation of Science	Study of Tilt Angle from White Light Images using Machine Learning	Poster
Upasna Baweja	ASI2022_266	Aryabhata research institute of observational sciences	Coronal magnetic field measurements using Bayesian Inference	Poster
Vindya Vashishth	ASI2022_49	Indian Institute of Technology (BHU), Varanasi	Modelling the occurrence of grand minima in sun-like stars using a dynamo model	Poster
Vishal Upendran	ASI2022_154	Inter University Centre for Astronomy and Astrophysics	Chromospheric and transition region dynamics in coronal holes and quiet sun	Poster
Vishnu Madhu	ASI2022_507	Indian Institute of Astrophysics	Solar Mean Magnetic Field of the Chromosphere	Poster
Vishwajeet Swain	ASI2022_676	Indian Institute of Technology Bombay	Solar system studies with the GROWTH-India Telescope	Poster
Vivek Kumar Singh	ASI2022_95	Sam Higginbottom University of Agriculture, technology and Sciences, Prayagraj	Estimation of Coronal Rotation using Nobeyama Radio Heliograph at 17 GHz	Poster
Wageesh Mishra	ASI2022_407	Indian Institute of Astrophysics, Bengaluru	Investigating the interaction of CMEs during their heliospheric propagation	Poster

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