

**ASI 2024 – List of Selected Abstracts – Sun, Solar System, Exoplanets, and Astrobiology**

<b>Name</b>	<b>Conference ID</b>	<b>Affiliation</b>	<b>Title</b>	<b>Abstract Type by SOC</b>
Divya Oberoi	ASI2024_109	NCRA-TIFR	Imaging the Sun With MeerKAT: Opening a New Frontier in Solar Physics	Invited (review talk)
Gopal Hazra	ASI2024_559	IIT Kanpur	Estimating Hydrodynamic Escape of H <sub>2</sub> -H <sub>2</sub> O atmospheres from Terrestrial Exoplanets Orbiting M-dwarfs	Oral
Sripan Mondal	ASI2024_187	Prime Minister Research Fellow, Indian Institute of Technology (Banaras Hindu University), Varanasi	MHD Simulation of the Magnetic Reconnection and Evolution of Plasmoids in Solar Current Sheets	Oral
Bihan Banerjee	ASI2024_591	Tata Institute of Fundamental Research, Mumbai	Understanding the formation and evolution of close-in planets	Oral
Chitradeep Saha	ASI2024_518	Center of Excellence in Space Sciences India, IISER Kolkata	Origin of supermodulation in solar magnetic activity	Oral
Nitin Vashishtha	ASI2024_1006	Aryabhata Research Institute of Observational Sciences (ARIES)	Evolution of CMEs and effect of helicity injection and polar magnetic field strength	Oral
Pankaj Kumar	ASI2024_256	NASA GSFC	New Evidence on the Origin of Solar Wind Microstreams/Switchbacks	Oral
Atul Mohan	ASI2024_512	NASA Goddard Space Flight Center	Properties of CME-related type-IV radio bursts and its discovery in an active non-solar type star	Oral
B.S. Bharath Saiguan	ASI2024_371	Physical Research Laboratory	Solar Flare Statistics with Chandrayaan-2 XSM	Oral
Manjunath Bestha	ASI2024_445	Indian Institute of Astrophysics	Transmission Spectroscopy of Exoplanets Using the 2m Himalayan Chandra Telescope	Oral
Biswajit Mondal	ASI2024_340	NASA Postdoctoral Program Fellow, NASA Marshall Space Flight Center	Nanoflare heating frequency of an X-ray Bright Point observed by MaGIXS	Oral
Kiran L	ASI2024_555	Udupi Ramachandra Rao Satellite Centre	Spectral Response Function of SoLEXS onboard Aditya-L1	Oral
Dibyendu Nandi	ASI2024_665	CESSI & Physics, IISER Kolkata	First Simulations of the Sun-Earth-Moon Integrated Space Environment: A New Window into Exotic Physics in an Exotic Domain	Oral
Shashikiran Ganesh	ASI2024_248	Physical Research Laboratory	On the negative polarization phenomena in comets	Oral
Sanchita Pal	ASI2024_877	NASA GSFC	Identification of heliospheric magnetic obstacles originated from the Sun using Deep learning	Oral
NISHTHA SACHDEVA	ASI2024_911	UNIVERSITY OF MICHIGAN	Sun to Earth Modeling of the Solar Wind And Coronal Mass Ejections	Oral
Suvrath Mahadevan	ASI2024_937	Penn State	Discovery of a Close-in Neptune mass Planet around a low mass M dwarf Challenges Planet Formation Models	Oral

Krishna Prasad Sayamanthula	ASI2024_1021	Aryabhata Research Institute of Observational Sciences (ARIES)	Coronal signatures of transition region downflows within a sunspot	Oral
Sanket Wavhal	ASI2024_64	Indian Institute of Technology (BHU) Varanasi	How much Supercritical is Solar Dynamo?	Poster
Rohan Kumar	ASI2024_37	Indian Institute of Science Education and Research Kolkata	Active Region Small-Scale Loops: Unveiling Long-Period Oscillations	Poster
Keshav Aggarwal	ASI2024_148	Indian Institute of Technology Indore	Solar coronal studies using occultation events	Poster
Vivek Kumar Singh	ASI2024_206	SHUATS, Prayagraj , UP	“Solar Rotational Characteristics Using SDO/HMI data”	Poster
Komal Bali	ASI2024_98	ETH Zurich	Mitigating the effect of moonlight contamination in spectroscopic searches for extrasolar planets	Poster
Jithu J Athalathil	ASI2024_295	Indian Institute of Technology Indore	Surface Flux Transport Modelling Using Physics Informed Neural Networks	Poster
Srinjana Routh	ASI2024_300	Aryabhata Research Institute of Observational Sciences (ARIES)	Exploring the dynamic rotational profile of the Solar Atmosphere : A multiwavelength approach	Poster
Malay Shukla	ASI2024_162	IISER TVM	Investigating the potential of MHD waves as a plausible mechanism for generation of QPPs	Poster
ISHA SHARMA	ASI2024_491	PLASMA ASTROPHYSICS RESEARCH LABORATORY, DEPARTMENT OF PHYSICS, INSTITUTE OF SCIENCE, BANARAS HINDU UNIVERSITY	Formation of solar spicules and heating of solar atmosphere due to high-frequency disturbances in the solar photosphere	Poster
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Govindswaroop Rahangdale	ASI2024_153	Indian Institute of Science Education and Research, Thiruvananthapuram	Investigating Type II Solar Spicules: Insights from Magnesium II Spectral Lines at the Solar Limb	Poster
Suraj Kumar Tripathy	ASI2024_455	Indian Institute of Space Science and Technology, Thiruvananthapuram	Effect of resolution on damping of propagating slow magneto-acoustic waves in the solar corona	Poster
Ambika Saxena	ASI2024_628	Aryabhata Research Institute of Observational Sciences	Exploring spectral line asymmetries due to the propagating MHD waves in the solar atmosphere	Poster
Rishikesh Dutta Tiwary	ASI2024_319	Indian Institute of Information Technology Ranchi	Energy analysis of halo orbit in the Sun-Earth System	Poster
Shaonwita Pal	ASI2024_640	Center of Excellence in Space Sciences India, Indian Institute of Science Education and Research Kolkata	An Innovative Approach to Solar Cycle Forecasting Through Algebraic Quantification of the Sun's Dipole Moment	Poster
Vinod Chandra Pathak	ASI2024_585	Tata Institute for Fundamental Research, Mumbai	Characterizing the inner protoplanetary disks with JWST MIRI-MRS spectra	Poster
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Yoshita Baruah	ASI2024_270	Indian Institute of Science Education and Research, Kolkata	UTILIZING INNER HELIOSPHERIC IN-SITU OBSERVATIONS TO IMPROVE PREDICTION OF CME FLUX ROPE PROPERTIES NEAR EARTH	Poster
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Arpit Kumar Shrivastav	ASI2024_1016	Aryabhata Research Institute of Observational Sciences (ARIES)	On the generation of sloshing oscillations and its dependence on the flare properties	Poster
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BHASKAR GOSWAMI	ASI2024_600	Department of Physics, Assam University, Silchar	Understanding the Umov effect using carbon and silicate aggregates	Poster
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AGASTYA SAI RAM LIKHIT ANUMANCHI	ASI2024_38	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHOPAL	Identifying Potential Habitats Beyond Earth: A Multilayered Statistical Analysis of NASA's Confirmed Exoplanets.	Poster
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Said Hmidouch	ASI2024_991	Space sciences, Technologies & Astrophysics Research (STAR) Institute, University of Liège, Belgium. / Oukaimeden Observatory, High Energy Physics and Astrophysics Laboratory, Cadi Ayyad University, Marrakech, Morocco.	Monitoring the activity and composition of comet C/2017 (PanSTARRS) from photometry and long-slit spectroscopy.	Poster
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Rajapandi Nadar	ASI2024_563	St. Xavier's College Mumbai perusing MSc. Physics (Specialisation in Astronomy and Astrophysics)	A simple method to Calculate Lunar Distance using Camera	Poster (will be moved Education and Outreach)
Gautam Das	ASI2024_935	Indian Institute of Science Education and Research Kolkata	Modelling of high resolution FUOrs spectrum to infer fundamental parameters of YSO accretion.	Poster (will be moved to stars)

Arkil Dhaval Parikh	ASI2024_650	CHRIST(Deemed to be University)	Searching for Variable Stars and Microlensing Events in the Globular Clusters Palomar 1 and Palomar 2	Poster (will be moved to stars)
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