

ASI 2026 – List of Selected Abstracts – Sun, Solar System, Exoplanets, and Astrobiology

Name	Conference ID	Affiliation	Title	Abstract Type by SOC	Comments
Himadri Sekhar Das	ASI2026_513	Assam University, Silchar	Photometry, Spectroscopy, and Polarimetry of the Interstellar Comet 3I/ATLAS	Invited	
Liton Majumdar	ASI2026_817	National Institute of Science Education and Research (NISER)	The New Frontier in Astrophysics: Unifying the Origins, Atmospheres, and Interiors of Exoplanets	Invited	
Nitin Yadav	ASI2026_274	IIT Delhi	MHD Wave Generation by Photospheric Vortex Flows and Their Chromospheric Signatures	Invited	
V. Muthu Priyal	ASI2026_948	Indian Institute of Astrophysics	Fe XIV 5303 Å observations with VELC/Aditya-L1, and near-Sun coronal dynamics	Invited	
Abhijit Chakraborty	ASI2026_818	Physical Research Laboratory, Ahmedabad, India	Bhaskaracharya Observatory for the Search of Exoplanets (BOSE): Towards the discovery of Earth's twin	Oral	will be moved to Facilities, Technologies and Data science
Ananya Rawat	ASI2026_565	Physical Research Laboratory/ Udaipur Solar Observatory	Dispersive nature of slow waves propagating along coronal fan loops and their effect on the frequency-dependent damping	Oral	
Bibhuti Kumar Jha	ASI2026_1108	Southwest Research Institute, Boulder, CO, USA	Investigating the Magnetic Field Diagnostic capabilities of the He I 1083 Unsaturated Hanle Effect in Prominence Eruptions	Oral	
Bidya Binay Karak	ASI2026_157	Indian Institute of Technology (BHU) Varanasi	Bipolar magnetic regions and their tilts: Implications for the solar dynamo and cycle variability	Oral	
BIKI PRASAD	ASI2026_624	Assam University, Silchar	Polarimetric Properties of Main-Belt and Near-Earth Asteroids: A Comparative Study	Oral	
Debesh Bhattacharjee	ASI2026_646	Udaipur Solar Observatory, Physical Research Laboratory	On the role of compressibility using multi-spacecraft in situ observations of ICME-ICME merging on March 3, 2024 event	Oral	
Dhritimaan Gogoi	ASI2026_422	Gauhati University	Probing structure formation in a dusty protoplanetary disk.	Oral	
Durgesh Tripathi	ASI2026_453	Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune	The Sun in Near and Mid UV	Oral	will be moved to Facilities, Technologies and Data science
Manjunath Hegde	ASI2026_472	Indian Institute of Astrophysics	A Declining Trend in Sunspot Group Tilt Angles Over Three and half solar cycles: 21-24	Oral	
Megha Anand	ASI2026_809	Manipal Centre for Natural Sciences (MCNS), MAHE, Manipal	The First Disk-Resolved Mg II Index from SUIT	Oral	
Parashmoni Kashyap	ASI2026_621	National Institute of Science Education and Research (NISER) Bhubaneswar	Physics and Chemistry at Planet-forming Scales: The Ringworld Revisited	Oral	
Prasanta Bera	ASI2026_643	BHU, Varanasi	Mass radius relation of rocky planets	Oral	

Prithish Halder	ASI2026_1026	University of Nebraska-Lincoln, USA	Prediction of solar flare occurrence and its precise location through magnetic topological parameters	Oral	
Rishikesh Sharma	ASI2026_446	Physical Research Laboratory, Ahmedabad	TOI-6038A b: A Dense sub-Saturn in the Transition Regime between the Neptunian Ridge and Savanna	Oral	
Sahel Dey	ASI2026_530	University of Newcastle Australia	Global Scale MHD Modelling of the Solar Wind in light of In-Situ Observations	Oral	
Sana Ahmed	ASI2026_893	Trinity College Dublin, Ireland	Tracing Exocometary Gas Release in the β Pictoris Debris Disk	Oral	
Sanchita Pal	ASI2026_556	IIT Roorkee	Alert system for space weather disturbances using AI/ML	Oral	
Satyam Srivastav	ASI2026_524	School of Earth and Planetary Sciences, National Institute of Science Education and Research, Bhubaneswar	Temperature dependent Reaction Kinetics and Photodissociation cross-section data for exoplanetary atmospheres	Oral	
Sneha Pandit	ASI2026_988	Inter University Centre for Astronomy and Astrophysics, Pune, India	Statistical Signatures of Solar Activity in Near-Sun Switchbacks	Oral	
Soumya Roy	ASI2026_520	Physical Research Laboratory	White-Light Continuum Observations across the Balmer Jump for SOL2024-10-03T12:18	Oral	
Surajit Mondal	ASI2026_388	National Centre for Radio Astrophysics	Enigmatic Centi-SFU and mSFU Nonthermal Radio Transients Detected in the Middle Corona	Oral	
Trisha Bhowmik	ASI2026_645	Universidad Diego Portales	The Ophiuchus Disc Survey Employing ALMA (ODISEA). Substructures as a function of SED Class and disc mass in 100 systems.	Oral	
Unnimaya K C	ASI2026_185	U R Rao Satellite Centre, Bangalore	Solar energetic particle contamination catalog development for HELIOS aboard Aditya L1	Oral	
Varghese Reji	ASI2026_273	Tata Institute of Fundamental Research Mumbai	Modeling the vertical velocity gradient to disentangle stellar activity from exoplanet signal	Oral	
Aashirbad Sethi	ASI2026_901	Indian Institute of Astrophysics	Development of a CASA-based pipeline for the Gauribidanur Radioheliograph	Poster	
Abhay Kumar Prusty	ASI2026_985	Indian Institute of Science Education and Research, Kolkata	Intra-night chromospheric variability in a young M dwarf	Poster	
Abhilash Sarwade	ASI2026_1002	U. R. Rao Satellite Centre, ISRO	Inferring 1-Second Coronal Plasma Dynamics from SoLEXS Soft X-ray Spectra: A Novel Spectral Analysis Method	Poster	
Akanksha Khandelwal	ASI2026_681	Instituto de Astronomía UNAM, México	Searching for Small Planets Around Brown Dwarfs: Initial Results from the SAINT-EX Transit Survey	Poster	
AKASH BAIRAGI	ASI2026_526	IIT(BHU)	Interaction of EUV-wave Like Perturbations with the Localized Coronal Null and Occurrence of Fast to Alfvén Wave Mode Conversion	Poster	
Akash Shirke	ASI2026_56	University of Petroleum & Energy Studies, Dehradun	Analysis of solar flare and sunspots on 4th January 2025 and its effect on space weather	Poster	
Akshat Rawat	ASI2026_861	Physical Research Laboratory	From Shape to Activity: Thermo-Physical Simulations of Cometary Nuclei	Poster	

Akshay Ambekar	ASI2026_233	University of Mumbai	Lunar eclipse induces disturbance in the lunar exosphere	Poster	
Amsrang Ch Momin	ASI2026_631	Guwahati University	Updated Orbital Parameters and Masses of 17 Confirmed Exoplanets Using the Radial Velocity Method	Poster	
Ananthapadmanabhan KK	ASI2026_116	Indian Institute of Science Education and Research Thiruvananthapuram	Comparative Analysis of Solar Granulation Across Magnetic Regions	Poster	
Ananya Rai	ASI2026_652	IIT KANPUR	Effect of Stellar Flares on the evolution of exoplanet atmosphere around G, K, and M-type star	Poster	
Anjali Agarwal	ASI2026_290	Indian Institute of Astrophysics, Bengaluru	Instantaneous Expansion and Evolution of a CME: Insights from CAAP Method and Solar Orbiter-Wind Observations	Poster	
ANKIT ANDERSON	ASI2026_424	Pt. Prithi Nath (PG) College, Chhatrapati Shahu Ji Maharaj University	Chromospheric Preferred Active Longitudes as Tracers of Differential Rotation: SDO/AIA 304 Å Analysis (CR 2184–2280)	Poster	
Annu Bura	ASI2026_190	Indian Institute of Astrophysics	On the Origin of Coronal Picoflare Jets	Poster	
Anoop Gavankar	ASI2026_313	TATA INSTITUTE OF FUNDAMENTAL RESEARCH, MUMBAI	Vision Transformers as a Robust Alternative for Identifying Planetary Candidates in Solar EPRV Data	Poster	
Arjun Dawn	ASI2026_727	ARIES	Studying Exoplanetary Atmospheres in High Resolution with the DOT-HRS instrument	Poster	
Arpit Kumar Shrivastav	ASI2026_1117	Southwest Research Institute (SwRI)	Linking Slow-Wind Intervals to Streamers and Pseudostreamers Topologies and Dynamics	Poster	
Ashish Devaraj	ASI2026_705	Aryabhata Research Institute of Observational Sciences	Correlation Between Lunar Surface and Exospheric Sodium: Albedo-Driven Temperature Effects on Multilayer Sodium Reservoirs	Poster	
Ashutosh Joshi	ASI2026_248	Tata Institute of Fundamental Research, Mumbai	ForwardRM : A data driven forward modelling framework for Rossiter-McLaughlin Effect	Poster	
Avinash Verma	ASI2026_703	National Institute of Science Education and Research	A Detailed Investigation of HD 209458 b HST and JWST Transmission Spectra with SANSAR	Poster	
Ayswarya Lakshmi D T	ASI2026_347	Thiagarajar College, Madurai	Energetic neutral atoms and solar-cycle variability: IBEX constraints on the heliosphere–interstellar medium interaction	Poster	
Bablu Mandal	ASI2026_707	ARIES Nainital	Exploring Spatio-Temporal Evolution of a Long-lived Supersonic Downflow in AR 12135	Poster	
Bhupendra Kumar Tiwari	ASI2026_237	Indira Gandhi National Tribal University Amarkantak District Anuppur M.P.	Sporadic Solar Activity their Influence on galactic Cosmic Ray Modulation	Poster	
Borukote Sangadeep	ASI2026_1120	OSMANIA UNIVERSITY	A study on underestimation of mesospheric temperature from meteor decay times during major meteor shower	Poster	
Chetan Bora	ASI2026_929	Indian Institute of Technology (Indian School of Mines) Dhanbad	Tracing the Dynamical Origins and Past Evolution of Near-Earth Asteroids	Poster	

Chitradeep Saha	ASI2026_135	University of Reading, United Kingdom	A new millennial scale reconstruction of solar magnetic activity from 14C data	Poster	
Deepan Patra	ASI2026_667	National Centre for Radio Astrophysics, Pune	Multi-wavelength study of the Solar Corona using MeerKAT and space-based instruments	Poster	
Devesh Sharma	ASI2026_128	Indian Institute of Technology Indore	Modelling Wave Dynamics of the Quiet Sun Atmosphere Driven by β -mode Oscillations	Poster	
Dibyendu Misra	ASI2026_330	Physical Research Laboratory	First Multi-Band Imaging Polarimetric Characterization of Lunar Pyroclastic Deposits from Mount Abu Observatory	Poster	
dinesh mishra	ASI2026_804	Udaipur Solar Observatory ,Physical Research Laboratory, Udaipur, India	Evolution of Magnetic Twist in Active Regions Associated with Major Solar Flares	Poster	
Divya Oberoi	ASI2026_86	National Centre for Radio Astrophysics	Enabling State-of-the-art Solar and Heliospheric Sciences with the SKA Telescopes	Poster	
Divya Paliwal	ASI2026_850	USO PRL Ahmedabad	A high-frequency type II radio burst associated with an X2.3 class flare	Poster	
Dr. Prithvi Raj Singh	ASI2026_840	Department of Physics, University of Allahabad	Variations of Solar wind Plasma and Interplanetary magnetic field during Solar Cycles 22–24	Poster	
Dr. Sumanjit Chakraborty	ASI2026_30	Indian Institute of Geomagnetism, Mumbai, India	A user-friendly Neural Network framework for single-to-multi-day prediction of global ionospheric TEC: First Results	Poster	
G N Paneendra	ASI2026_859	Raman Research Institute	180 - 350 MHz Observations of Solar Cycle 25 Events and Space Weather Monitoring	Poster	
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Goldy Ahuja	ASI2026_806	Physical Research Laboratory	Dynamics Simulation of Comets	Poster	
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JOHAN SHARMA	ASI2026_171	Indian Institute Of Technology Hyderabad	Intermittent Structures in Kinetic Alfvén Wave Turbulence at Sub-Ion Scales	Poster	
Jyoti Sheoran	ASI2026_784	Aryabhata Research Insitute of Observational Sciences (ARIES), Nainital	First Evidence for Dual Polytropic Behavior in ICME Structures in the Inner Heliosphere	Poster	

kiran kumar Kaliseti	ASI2026_670	U R Rao Satellite Centre	A Multi-Instrument Study of Energy Flow in Two Successive M-Class Solar Flares using HEL1OS/Aditya-L1, XRS/GOES, AIA&HMI/SDO	Poster	
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Malay Shukla	ASI2026_562	Indian Institute of Technology, Delhi	A comparison of G-band brightness as a proxy-magnetometer in various magnetic configurations	Poster	
Mansi .	ASI2026_701	Aryabhata Research Institute of Observational Sciences(ARIES)	Multi - wavelength studies of large amplitude prominence oscillations	Poster	
MITHUN PATRA	ASI2026_413	National Institute of Science Education and Research (NISER)	Reflected-Light Spectroscopy of Exoplanets with NEXOTRANS: New Pathways to Atmospheric Characterization	Poster	
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Nambram Niroda Devi	ASI2026_635	DEPARTMENT OF PHYSICS , ASSAM UNIVERSITY SILCHAR	Imaging Polarimetry of Comets C/2023 H5 (Lemmon) and 333P/LINEAR	Poster	
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Prakhar Singh	ASI2026_389	Aryabhata Research Institute of Observational Sciences (ARIES)	Soft X-Ray Diagnostics of Eruptive and Confined Solar Flares: A Statistical Study Using SoLEXS/Aditya-L1	Poster	
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Pritam Das	ASI2026_629	Aryabhata Research Institute of Observational Sciences	Probing CME Internal Kinematics with Optical Flow: Evidence for Velocity Dispersion from Multi-Coronagraph Data	Poster	
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Raj Kumar	ASI2026_1109	kumaun university Nainital	Different range of Periodicities in Solar X-Ray Flares during Solar Cycle 24	Poster	
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S.P. Rajaguru	ASI2026_451	Indian Institute of Astrophysics	Helioseismic inferences on the coupled dynamics of large-scale flows and magnetic fields in the near-surface shear layer.	Poster	
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Sanjay Kumar	ASI2026_978	Department of Physics, Patna University, Patna	A Data Constrained MHD Simulation of Magnetic Reconnection at Hyperbolic Flux Tube and Quasi-Separatrix Layer	Poster	
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SARDAR SINGH RAO	ASI2026_1065	PATNA UNIVERSITY	EIA morphology over $\pm 75^\circ$ longitude sectors under storm-modified electro- and neutral dynamics	Poster	
Satish Chandra	ASI2026_297	Pt. Prithi Nath (PG) College, Kanpur	Study of Long Term Radial Differential Rotation using Multi-Wavelength Radio Data	Poster	
Satyendra Kumar	ASI2026_1112	Indian Institute of Technology Kanpur	Planetary Surface Compositional Maps: Resolution Refinement & Filling Data Gaps	Poster	
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SOUMIK KAR	ASI2026_500	PHYSICAL RESEARCH LABORATORY	Thermal Structure and Spectral Energy Distributions of Protoplanetary Disks: A Monte Carlo Radiative Transfer Study	Poster	
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Souvik Roy	ASI2026_1039	University of California Los Angeles	Role of Polar Outflows in the Storm-Time Magnetosphere: Results from Multifluid MHD Simulations	Poster	
Srinjana Routh	ASI2026_250	ARIES	A Detectron 2 based pipeline for instance segmentation of filaments across datasets	Poster	
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Subham Ghosh	ASI2026_626	Asia Pacific Center for Theoretical Physics	The Conditions for the Onset of Magnetic Reconnection in an Asymmetric Current Sheet	Poster	
Subhash Chandra Kaushik	ASI2026_583	PMCOE Government Autonomous College, Datia, MP	Solar Transient Plasma Flows and Space Weather during Recent Solar Cycles	Poster	
Sudheer Kumar Mishra	ASI2026_1019	Kyoto University, Japan	Periodic Null-Point Reconnection and Sustained Coronal Heating in Fan-Spine Jets from Quiet Sun to Evolving Active R	Poster	
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Tonmoy Deka	ASI2026_109	National Institute of Science Education and Research, Bhubaneswar	NEXOTRANS: A Next-Generation Exoplanet Atmospheric Retrieval Framework Applied to the 0.6–12 μ m JWST Spectrum of WASP-39 b	Poster	
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