

ASI 2025 – List of Selected Abstracts – Facilities, Technologies and Data science

Name	Conference ID	Affiliation	Title	Abstract type (by SOC)
Abhinav Narayan	ASI2025_383	Indian Institute of Technology Indore	GARUDA: A Deep Learning based automated radio data analysis pipeline for the GMRT	Oral
viren mandaogane	ASI2025_510	Savitribai Phule Pune University	LiBRA: A Novel Low Frequency Wideband Antenna for Radio Astronomy	Oral
Sanmoy Bandyopadhyay	ASI2025_605	Aryabhata Research Institute of Observational Sciences	Integral Adaptive Thresholding Inspired Solar Filament Detection	Oral
Anuraag Arya	ASI2025_222	IIT Bombay	Deep space navigation with X-ray pulsars	Oral
Prajwel Joseph	ASI2025_473	Indian Institute of Astrophysics	Arivu: Regenerated High-Level UVIT Data Products	Oral
Aparna Sekhar E R	ASI2025_328	Cochin University of science and Technology	Modeling Optical Performance in Integrated Model of Segmented Mirror Telescopes	Oral
Amar Nath	ASI2025_110	Raman Research Institute	QMIST: A Software Pipeline for the Detection of Quasi-periodic Microstructures in Pulsar Emission	Oral
Nagendra Neerudu	ASI2025_174	Balloon Facility of Tata Institute of Fundamental Research	Scientific Ballooning in India: Recent Activities and Developments at TIFR Balloon Facility	Oral
Shubham Ghatul	ASI2025_230	Indian Institute of Astrophysics, Bengaluru	NUTEx: Development of a near ultraviolet (NUV) imager for transient studies	Oral
Sakram Korra	ASI2025_330	TIFR, Balloon Facility, Hyderabad.	Recent Developments in Scientific Ballooning and Utilization of Hydrogen as a Lifting gas for Stratospheric Balloons	Oral
Phanindra DVS	ASI2025_396	Indian Institute of Astrophysics	Fabrication and Characterization of Liquid Crystal Retarders	Oral
kalpesh chillal	ASI2025_388	Inter-University Centre for Astronomy and Astrophysics (IUCAA)	Challenges in Upgradation and Testing of IFOSC CCD Controller	Oral
SAYUF SHAIK	ASI2025_452	Indian Institute of Astrophysics	Estimation of coronal magnetic field strength at meter wavelength using augmented Gauribidanur Radioheliograph (GRAPH)	Oral
Prasad Neelam	ASI2025_503	physical Reserach Laboratory	The 2.5M Telescope and backend instruments suite	Oral
Keerthipriya Sathish	ASI2025_422	Raman Research institute	Dual polarised Fantail dipole Antenna Design for APSErA an S-band Precision cosmology experiment	Oral
Kiran Jayasurya	ASI2025_640	U R Rao Satellite Centre	GEM-TPC Soft X-ray Polarimeter: Demonstration of Polarimetric Capability	Oral
Kuntal Misra	ASI2025_714	ARIES	Initial results from the 4-m International Liquid Mirror Telescope (ILMT)	Oral
Tarun Bangia	ASI2025_257	Aryabhata Research Institute of Observational Sciences (ARIES), Nainital	Development and Prototype Testing of a Monitoring System for 3.6m DOT Equipment	Oral

Arul Pandian B	ASI2025_727	Raman Research Institute	A Novel LPDA Array for 130 - 350 MHz Pulsar observation at Gauribidanur - Initial Results	Oral
Shubhangi Jain	ASI2025_271	Indian Institute of Astrophysics	The FUV Imaging Satellite (FISAT)	Poster
Karthic Kumar	ASI2025_483	Indian Institute of Astrophysics Bangalore	Development of Metrology Station an XYZ gantry for the Sub Aperture Interferometer in Thirty Meter Telescope Project.	Poster
Arjun Ghosh	ASI2025_134	Raman Research Institute	Laboratory Commissioning of a 77 K cryocooler for the APSERA S-band telescope	Poster
Aman Kumar	ASI2025_415	Inter-University Centre for Astronomy and Astrophysics (IUCAA)	HUMM : High-Throughput Uncertainty-Aware Morphology Mapping of Radio Galaxies with Bayesian Models	Poster
Rahul Gopalakrishnan	ASI2025_670	IUCAA	Data processing pipeline of SUIT onboard Aditya-L1	Poster
Abhishek R	ASI2025_703	RAMAN RESEARCH INSTITUTE	FRB detection at low frequencies	Poster
Muhammed Roshan M	ASI2025_223	INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHOPAL	Enhanced Radio Interferometric Imaging with Novel Deconvolution Techniques: Application of U-Net Architecture	Poster
Rahul Barnwal	ASI2025_563	Dhruva Space Pvt Ltd	KARE: KANs for Accurate Reconstruction of GRB Lightcurves	Poster
Vishwajeet Swain	ASI2025_733	IIT Bombay	Rapid follow-up of gravitational wave events with a robotic meter-class optical telescope	Poster
Mahesh Dalavi	ASI2025_325	India TMT Coordination Center, Indian Institute of Astrophysics, Bangalore	End Item Data Package Management System (EMS) for Thirty Meter Telescope.	Poster
Akshay M S	ASI2025_425	Indian Institute of Space Science and Technology	Studying cross-dispersion options for a near-infrared echelle spectrographs	Poster
Sonika Piridi	ASI2025_34	National Institute of Technology, Rourkela	The First Data Release of Ultra Violet Imaging Telescope (UVIT DR1)	Poster
Dr Vrishali Murudkar	ASI2025_102	Bhabha Atomic Research Centre	Simulation & optical design optimization studies for a proposed dual mirror Schwarzschild Couder Cherenkov Telescope at Hanle.	Poster
Kevikumar A. Lad	ASI2025_204	PRL	Mirror Coating Plant for PRL 2.5m Telescope	Poster
Mani Khurana	ASI2025_228	Bhabha Atomic Research Centre	DIOS: An Image Cleaning Method to improve MACE sensitivity	Poster
Ashutosh Das	ASI2025_369	Indian Institute Of Technology, Indore	Designing a control system for a 4-m class radio telescope using FPGA	Poster
Swagat Bordoloi	ASI2025_429	Research Scholar	Ultraviolet Source Survey with AstroSat's UVIT: A Catalog of Point Sources	Poster
sonam jorphail	ASI2025_488	Indian Institute of Astrophysics	Development of a Customized Automatic Weather Station as an Auxiliary Instrument of the DIMM Seeing Monitor.	Poster
Thubstan Rinchen	ASI2025_559	BHABHA ATOMIC RESEARCH CENTRE	Design & Development of mechanism for Mirror Panel Maintenance for MACE Telescope	Poster
Nikitha Jithendran	ASI2025_630	Physical Research Laboratory	Speckle Interferometry with speckle imager on PRL 2.5m telescope	Poster
Abhay Kumar	ASI2025_638	INAF - Institute of Space Astrophysics and Planetology (IAPS)	Development of a 1-D position sensitive absorber for a Compton X-ray polarimeter	Poster

deekshya roy sarkar	ASI2025_321	Physical Research Laboratory	Development of a Wide-Field Imager for telescopes at PRL Mt Abu Observatory	Poster
Shashikiran Ganesh	ASI2025_530	Physical Research Laboratory	Long exposure mode for EMPOL, the PRL imaging polarimeter	Poster
Akshaya V G	ASI2025_588	Raman Research Institute	RFSOC-based digital spectrometer for APSErA	Poster
Manish Chauhan	ASI2025_528	Space Applications Centre, Indian Space Research Organisation, Ahmedabad	Long-term analysis of meteorological parameters over Indian astronomical sites	Poster
Ravinder Banyal	ASI2025_677	IIA	Development of key subsystems for SCALES at IIA	Poster
Amirul Hasan	ASI2025_686	Indian Institute of Astrophysics, Bengaluru	Study of High-Efficiency Fore-Optics Design for the High-Resolution Optical Spectrograph (HROS) on the Thirty Meter Telescope	Poster
Nitish Singh	ASI2025_125	Indian Institute of Astrophysics Bengaluru	Design, Fabrication, and Performance Analysis of a Wide-Field Camera for the VBT Prime Focus	Poster
Sahana Bhatramakki	ASI2025_708	Raman Research Institute	FFT beamforming implementation on RFSOC	Poster
Prateek Gupta	ASI2025_169	Thuringer Landessternwarte Tautenburg	REANA4PUNCH use cases in Astronomy	Poster
Arijit Maiti	ASI2025_207	Physical Research Laboratory	On-sky Characterization of ProtoPol: a medium resolution echelle spectro-polarimeter for PRL telescopes	Poster
Prasanna Deshmukh	ASI2025_341	Indian Institute of Astrophysics	Integrated Modelling of 6.2m Wide-Field Telescope for Spectroscopic Survey.	Poster
Chaitanya Rajarshi	ASI2025_36	IUCAA, Pune	Design, assembly, integration, and laboratory testing of the WALOP-South Polarimeter	Poster
Arun Surya	ASI2025_358	Indian Institute of Astrophysics	Data Reduction Techniques for SCALES High-Contrast Lenslet IFU for Keck Telescope	Poster
Somnath Dutta	ASI2025_432	ASIAA, Taiwan	Localization of fast radio bursts: An outrigger station of BURSTT-Taiwan at RRI-India	Poster
Kapil Kumar	ASI2025_617	Physical Research Laboratory, Ahmedabad, India	Indigenous Innovations for Achieving Sub m/s Precision in High-Resolution Spectroscopy with PARAS-2	Poster
Rwitika Chatterjee	ASI2025_523	U R Rao Satellite Center	XSPECT - Instrument Calibration and First Results	Poster
Kumar TS	ASI2025_718	ARIES	Upgradation of integral auto guider unit subsystem of the 3.6 m DOT	Poster
Anwesh Kumar Mishra	ASI2025_426	Indian Institute of Astrophysics	Proposed optical design for a FOSC type instrument for HCT with polarimetric capabilities in the NUV-VIS range	Poster (moved from Stars category)
Gaurav Singh	ASI2025_647	National Astronomical Observatory Chinese Academy of Sciences (NAOC)	Astronomy from the moon: Role of LUT onboard Chang'E-3	Poster (moved from Stars category)