

**ASI 2024 – List of Selected Abstracts – Facilities, Technologies and Data science**

<b>Name</b>	<b>Conference ID</b>	<b>Affiliation</b>	<b>Title</b>	<b>Abstract Type by SOC</b>
Radhakrishna Vatedka	ASI2024_974	U R Rao Satellite Centre, Indian Space research Organisation, Bengaluru	High Energy Astronomy Instruments: Current Developments and Future Challenges	Invited (review talk)
Aman Kaushik	ASI2024_678	Tata Institute of Fundamental Research	Wide field, wide bandwidth feed design for the All Sky Transient Radio Array (ASTRA)	Oral
Supriyo Ghosh	ASI2024_62	University of Hertfordshire	EXOhSPEC: A small and inexpensive actively controlled high-resolution optical spectrograph	Oral
Nitish Singh	ASI2024_224	Indian Institute of Astrophysics, Bengaluru	Multi-object spectroscopy with Vainu Bappu Telescope: Design, Development, and Lab testing of Wide Field Corrector unit at IIA	Oral
Rohan Ganesh Amanaganti	ASI2024_772	Indian Institute of Technology Bombay	Needle in a haystack: Searching for GRB-s in unbinned Time Tagged Event Data	Oral
Anshu Kumari	ASI2024_633	NASA GSFC	On the design requirements of space-based radio instrumentation for faraday rotation measurements	Oral
Avinash Kumar Paladi	ASI2024_24	Indian Institute of Science	Multiband extension of Wideband Timing Technique	Oral
SANDEEP VISHWAKARMA	ASI2024_160	TATA INSTITUTE OF FUNDAMENTAL RESEARCH, MUMBAI	Medium Energy Detector Board Development, Readout, and Testing for Daksha Satellite	Oral
Sahana Bhatramakki	ASI2024_587	Raman Research Institute	Increased Number of Independent Beams for SKA-Low TPM	Oral
Kshitij Bane	ASI2024_97	Indian Institute of Astrophysics	Multi-beam observations with Digital beamformer for the Gauribidanur Pulsar System	Oral
Mamta Gulati	ASI2024_799	Thapar Institute of Engineering and Technology, Patiala	Satellite orbit modelling and prediction of orbit disintegration due to perturbations using machine learning.	Oral
Mayuri Rao	ASI2024_871	Raman Research Institute	Preliminary site quality analysis for an Indian sub-millimetre telescope	Oral
T. S. Kumar	ASI2024_931	ARIES	Mirror control techniques in the 3.6 m DOT and future plans	Oral
Debbijoy Bhattacharya	ASI2024_698	Manipal Centre for Natural Sciences, Manipal Academy of Higher Education	Design requirements for a future Wide Field X-ray Spectroscopic mission: followup to AstroSat	Oral
Chaitanya Rajarshi	ASI2024_945	Inter University Center for Astronomy and Astrophysics	Confronting Challenges in Design and Development of the Wide Area Linear Optical Polarimeter -South	Oral
Raja Bayanna ANKALA	ASI2024_984	Physical Research Laboratory, Udaipur Solar Observatory	Inversion of spectroscopic observations from MAST: NICOLE Vs NLTE-CAISER	Oral
Swagat Bordoloi	ASI2024_100	Tezpur University	AstroSat's UVIT Ultraviolet Sources: An all sky FUV point source catalog of deep fields	Poster

Arijit Maiti	ASI2024_536	Physical Research Laboratory	Performance Simulations of M-FOSC-EP instrument for Spectro-polarimetry with 2.5m PRL telescope	Poster
Johann Fernandes	ASI2024_869	Indian Institute of Technology Bombay	A Machine learning approach to detect IMBH signals	Poster
Dhananjay Raman	ASI2024_995	Indian Institute of Technology, Bombay	Gamma Ray Burst Localization using Triangulation	Poster
Hemanth Bommireddy	ASI2024_320	Universidad de Chile	Multi-messenger alert crossmatching in the new era of time domain astronomy	Poster
Naveen Dukiya	ASI2024_810	Aryabhata Research Institute of Observational Sciences, Nainital.	Astrometric calibration of the 4m ILMT data	Poster
Janmejoy Sarkar	ASI2024_634	The Inter-University Centre for Astronomy and Astrophysics and Tezpur University	In-Lab Photometric Calibration of the SUIT Payload on-board Aditya L1	Poster
Pushpak Pandey	ASI2024_479	Inter University Centre for Astronomy and Astrophysics	Minima Statistics	Poster
Mritunjay Baruah	ASI2024_383	Indian Institute of Science, Bangalore	Nature-inspired Architecture for an Extra-terrestrial Habitat	Poster
Aditya Tamar	ASI2024_420	National Institute of Technology, Karnataka	Effect of Earth's Oblateness on Black Hole Imaging through Space VLBI	Poster
Roshan Kumar Dora	ASI2024_35	Indian Institute of Science Education and Research Bhopal	Two Element Broadband Log-Periodic Dipole Antenna Radio Interferometry: Exploring the SKA Low Frequency Band	Poster
Aditya Bharadwaj	ASI2024_275	Indian Institute of Astrophysics	Automated Pipeline for Photometric Data reduction at JCBT	Poster
Shubham Ghatul	ASI2024_778	Indian Institute of Astrophysics, Bengaluru	MaceBerryCam: Development of a Raspberry Pi based star camera for MACE telescope at Hanle	Poster
G. Sai Santhosh Sivan	ASI2024_653	Indian Institute of Science	Microbial Analysis in Space (MANAS) - A modular payload to understand the growth dynamics in microgravity environment	Poster
Sarvesh Mangla	ASI2024_731	National Centre for Radio Astrophysics	Exploring the Ionosphere Above the uGMRT using GNSS	Poster
SHUBHANGI JAIN	ASI2024_892	Indian Institute of Astrophysics	The Galactic Plane Surveyor in Near ultraviolet (N-UV)	Poster
Rahul Barnwal	ASI2024_1008	Indian Institute of Information Technology Kottayam	Harnessing Bayesian Neural Network for Galaxy Bulge-to-Total Luminosity Ratio Estimation	Poster
Dr Vrishali Murudkar	ASI2024_159	Bhabha Atomic Research Centre	Ray-tracing simulation studies for dual mirror Schwarzschild Couder Cherenkov Telescope at Hanle.	Poster
Debangana Sarkar	ASI2024_459	Bhabha Atomic Research Centre	Data Management for MACE Telescope	Poster
Prasanna Deshmukh	ASI2024_505	Indian Institute of Astrophysics	IIA Data Logger (IDL) - A low power, compact and multipurpose data logger.	Poster
Arun Surya	ASI2024_442	Indian Institute of Astrophysics	MOIS Configurable Slit Spectrograph: Understanding the design performance through end-to-end modeling	Poster

Rajaram Nityananda	ASI2024_582	International Centre for Theoretical Sciences -Tata Insitute of fundamental Research	Closure quantities for full polarisation radio interferometric observations: a graph theoretical approach	Poster
Bhaveshkumar Mistry	ASI2024_576	Physical Research Laboratory	Opto-mechanical design and control system aspects of ProtoPol – a medium resolution echelle spectro-polarimeter for PRLTelescope	Poster
Mudit Kumar Srivastava	ASI2024_636	Physical Research Laboratory, Ahmedabad	Development of ProtoPol – a medium resolution echelle spectro-polarimeter for PRL Telescopes	Poster
Kiran M Jayasurya	ASI2024_639	U R Rao Satellite Centre	Multifaceted Simulations to design a TPC Polarimeter for Soft to Medium X-rays	Poster
Alka Singh	ASI2024_378	Physical Research Laboratory	NISP: A Near Infrared Imager, Spectrometer and Polarimeter Instrument- Electronics Design and Development	Poster
Naresh Kumar Patra	ASI2024_752	BITS Pilani K K Birla Goa Campus, Goa, India	Establishing connection between neutron star properties and nuclear matter parameters through a comprehensive multivariate	Poster
Santaji Katore	ASI2024_599	NCRA - GMRT - TIFR	Command file creator for upgraded GMRT	Poster
Tarun Bangia	ASI2024_750	ARIES, Nainital	Development of monitoring platform for equipment of 3.6 m DOT	Poster
Stanzin Norlha	ASI2024_766	Bhabha Atomic Research Centre	Design and Development of Mirror Panel Maintenance Mechanism for MACE Telescope	Poster
Debanjan Mandal	ASI2024_893	Indian Institute of Astrophysics	Manufacturing challenges of Soft Actuator for the Thirty Meter Telescope.	Poster
Koushal Vadodariya	ASI2024_642	U R Rao Satellite Centre	Design and optimization of Wolter-I type X-ray optics: A MATLAB based iterative method and ray-tracing approach	Poster
Mahesh Dalavi	ASI2024_915	India TMT Coordination Centre & Indian Institute of Astrophysics.	Nanometric Coating Thickness Measurement using Form Talysurf instrument for TMT Edge Sensors.	Poster
Kumar Pranshu	ASI2024_620	ARIES, Nainital	Automated Classification of Transient Alerts in the context of the 4-m International Liquid Mirror Telescope	Poster
Zahoor Ahmed	ASI2024_16	BHABHA ATOMIC RESEARCH CENTRE	Optimal Power Flow Management of standalone off grid PV based 240kW battery banks for operation of Gamma Ray MACE Telescope.	Poster
Vineeth Valsan	ASI2024_986	Christ (Deemed to be University)	A compact NUV telescope for monitoring stellar activity in exoplanetary systems	Poster
Saraswathi Kalyani Subramanian	ASI2024_989	Indian Institute of Astrophysics	Development of low-order adaptive optics system at Kodaikanal Observatory	Poster
Archita Rai	ASI2024_368	Korea Astronomy and Space Science Institute	Adaptive Optics performance simulation for smaller telescopes	Poster

Avanti Kulkarni	ASI2024_938	Indian Institute of Technology, Bombay	A Genetic Algorithm based Approach for Tuning Parameters of the Star Tracker Algorithms	Poster
Sreevaishnava Cherukuri	ASI2024_1005	Physical Research Laboratory	Flat mirror based X-ray telescope for Pulsar Navigation	Poster