

## ASI 2023 – List of Selected Abstracts – Instrumentation and Techniques

Name	Conference ID	Affiliation	Title	Abstract Type by SOC
Mudit Srivastava	ASI2023_135	Physical Research Laboratory, Ahmedabad	Designs of M-FOSC-EP and ProtoPol: Spectro-Polarimeters for PRL 1.2m and 2.5m Telescopes	Oral
Indrajit Paul	ASI2023_148	National Institute of Science Education and Research, Bhubaneswar.	Modelling of point spread function (PSF) for PSF photometry in PASIPHAE survey.	Oral
Swapnil Singh	ASI2023_253	U R Rao Satellite Centre	Development and Characterization of an AOTF based NIR Spectro-polarimeter to Study Earth as an Exoplanet	Oral
JANMEJOY SARKAR	ASI2023_213	The Inter-University Centre for Astronomy and Astrophysics, Pune and Tezpur University	Optical Alignment and Imaging Performance of the Solar Ultraviolet Imaging Telescope (SUIT) onboard Aditya-L1.	Oral
Bhaskar Bose	ASI2023_610	Tata Consultancy Services	Object Identification: A Bayesian approach to identify Stars and AGNs observed by XMM Newton	Oral
Radhika Dharmadhikari	ASI2023_116	Indian Institute of Astrophysics	Development of an Alignment Device for the Prototype Segmented Mirror Telescope	Oral
Debangana Sarkar	ASI2023_229	Bhabha Atomic Research Centre	MACE Online Telemetry Analysis : Software Design , Implementation & Results	Oral
Gireesh GVS	ASI2023_396	Mr.	Commercial dish TV antennas to measure the Sun's magnetic field	Oral
Sagar Godambe	ASI2023_388	Astrophysical Sciences Division, Bhabha Atomic Research Centre	Performance evaluation of MACE Telescope Camera	Oral
Ravinder Banyal	ASI2023_441	IIA	Imager channel for the SCALES Instrument	Oral
Prasanna Deshmukh	ASI2023_18	Indian Institute of Astrophysics	Functionality Testing of Thirty Meter Telescope Segment Support Assemblies	Oral
Bhavesh Jaiswal	ASI2023_447	Indian Space Research Organisation	Concept Design of a Polarizing Stellar Coronagraph for detecting Exoplanets	Oral
Harshit Shah	ASI2023_356	Tata Institute of Fundamental Research, Mumbai	Mechanical Design of the Pickup arm for TIFR-Multi-Object Optical to Near Infra-red Spectrograph (TIFR-MOONS)	Oral
Arun Surya	ASI2023_415	Tata Institute of Fundamental Research	MOIS: A configurable slit multi-object infrared spectrograph for DOT	Oral
Bhavya Ailawadhi	ASI2023_418	ARIES	An automated photometric pipeline for the ILMT data	Oral
KRISHNAN KUTTY A P	ASI2023_511	TIFR	Configurable Slit Unit for the Multi Object Infrared Spectrometer	Oral

Ashish Mahabal	ASI2023_546	California Institute of Technology	ZARTH to help catch 'em young	Oral
Sujay Mate	ASI2023_430	TIFR-Mumbai	Searching for second-timescale radio transients with CHIME telescope	Oral
Akhil Jaini	ASI2023_416	Indian Institute of Astrophysics	Slitless Spectrophotometry of Exoplanet Host Stars	Oral
Kapil Kumar	ASI2023_656	Physical Research Laboratory Ahmedabad Gujrat India	PARAS-2; Indigenous Development of High Resolution Spectrograph	Oral
Parvathy M	ASI2023_681	Indian Institute of Astrophysics, Bengaluru	Instrumentation for Solar System objects in the context of exoplanets	Oral
Raghunathan Agaram	ASI2023_556	Raman Research Institute	Low Frequency Radio Telescope	Oral
Chinmay Borwankar	ASI2023_535	Bhabha Atomic Research Center	Crab nebula observations using MACE telescope	Oral
Sreevaishnava Cherukuri	ASI2023_571	Physical Research Laboratory	Experimental verification of off-axis polarimetry with cadmium zinc telluride detectors of AstroSat-CZT Imager	Oral
Kumar TS	ASI2023_736	ARIES	Upgradation of integral auto guider unit subsystem of the 3.6 m DOT	Oral
Karthic Kumar Muthukumaran	ASI2023_524	Indian Institute of Astrophysics	Manufacture and Assembly of Segment Support Assemblies for Primary Mirror Segments of Thirty Meter Telescope in India	Oral
Sunil Chandra	ASI2023_750	SAAO, Cape Town	Robotic Telescopes, Intelligent Observatories: Technological Innovation for small sized optical telescopes	Oral
UNNIMAYA K C	ASI2023_318	U R Rao Satellite Centre, Bangalore	Design optimization of an X-ray camera for X-ray auroral emission studies with PIXIE observations	Poster
Nimmi Narayanan	ASI2023_408	Sree Sankara College, Kalady	Determination of UV Diffuse Background Radiation and verification of GALEX Deep and Medium Airglow Model	Poster
SUBHADIP SAHA	ASI2023_9	PMRF Fellow, Department of Physics, IIT Kanpur	Updated work on designing a sophisticated phased radio array for cosmic ray detection since ASI-40, 2022.	Poster
Stanzin Norlha	ASI2023_569	Bhabha Atomic Research Centre, BARC	Feasibility study on enhancement of the light collector area of TACTIC $\gamma$ -ray Telescope	Poster
Srinadh Reddy Bhavanam	ASI2023_130	Indian Institute of Technology, Hyderabad	Combined Dictionary Learning and Attention Augmented Deep Models for Cosmic Ray Detection in Astronomical Images	Poster
Tsewang Stanzin	ASI2023_106	IAO-IIA Bangalore	Development of an Automated DIMM Seeing Monitor	Poster
Sarvesh Gharat	ASI2023_221	Indian Institute of Technology Bombay	An Image Processing approach to identify solar plages observed at 393.37 nm by Kodaikanal Solar Observatory	Poster

Kumar Pranshu	ASI2023_289	Aryabhata Research Institute of Observational Sciences, Nainital	Automated transient detection in the context of International Liquid Mirror Telescope	Poster
Arjun Ghosh	ASI2023_72	University of Calcutta	Passive Mode Operation of CU-ST Radar for Sun Tracking	Poster
Nitish Singh	ASI2023_156	Indian Institute of Astrophysics, Bengaluru	The Optimal Utilization Of Vainu Bappu Telescope For Spectroscopy	Poster
Avinash CK	ASI2023_118	Indian Institute of Astrophysics	PISTA: an open-source python-based image simulator	Poster
Kaushal Joshi	ASI2023_333	Motilal Nehru College	Appreciating Indian Astronomical Heritage with Jantar Mantar through Citizen Science	Poster
Komal Bali	ASI2023_238	Master's Thesis Student, Department of Physical Sciences, IISER Mohali	Use of sky fiber to correct for solar light contamination in EPRV	Poster
Aman Kumar	ASI2023_603	Tezpur University	Star Classification: An automatic algorithm to classify Binary and Exoplanet stars	Poster
Ayush Nema	ASI2023_534	Tata Institute of Fundamental Research	Cadmium Zinc Telluride detector calibration and characterisation for Daksha	Poster
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ABHIMANYU BORTHAKUR	ASI2023_751	Manipal Institute of Technology	A Bayesian approach to classify SDSS images	Poster
TASHI THSERING	ASI2023_149	Indian Institute of Astrophysics, Bangalore	Development of a moderate size Direct Drive based Alt-Azimuth Telescope.	Poster
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ANKITA PATEL	ASI2023_385	PHYSICAL RESEARCH LABORATORY	Development of PRL Adaptive Optics (AO) Simulation Software	Poster
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Ajay Kumar	ASI2023_297	National centre for radio astrophysics	Automated morphological classification of Fast Radio Bursts using a Deep Learning framework	Poster
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DHARMESH TRIVEDI	ASI2023_702	TATA INSTITUTE OF FUNDAMENTAL RESEARCH, BALLOON FACILITY	Telemetry data decoding and graphical user interface software for balloon-borne experiment	Poster
Arul Pandian B	ASI2023_519	The Christ University, Bangalore.	Fifty-Five Years of Pulsar Search and beyond - as viewed from the SKA Era.	Poster
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SISIRA P.K	ASI2023_576	Indian Institute of Astrophysics	Updates on DMD Controller Interface Implementation for INSIST project	Poster
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prasad neelam	ASI2023_710	Physical Research Laboratory	PRL Mt Abu 2.5m Telescope and Back-end Instrumentation.	Poster
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Debbijoy Bhattacharya	ASI2023_718	Manipal Centre for Natural Sciences, Manipal Academy of Higher Education	Concept Design of a Wide-Field Imager & Soft X-ray Spectrometer for future astronomy mission	Poster
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