

## ASI2022 - List of selected abstracts in Instrumentation and Techniques

NAME	CONFERENCE ID	AFFILIATION	TITLE	Abstract Type by SOC
Jayaram Chengalur	ASI2022_423	NCRA-TIFR	Past, Present and Future Radio Observational Facilities in India	Invited (Will be moved to Plenary)
Prashant Kumar	ASI2022_763	Physical Research Laboratory	Solar Wind Ion Spectrometer(SWIS): Instrument capability, preliminary test and ground calibration results	Invited
Ramya Sethuram	ASI2022_764	Indian Institute of Astrophysics	Conceptual Design of Wide Field Optical Spectrograph for TMT	Invited
Shyama Narendranath	ASI2022_177	Indian Space Research Organisation	Mapping lunar surface chemistry with CLASS on Chandrayaan-2	Invited
Varsha Chitnis	ASI2022_267	Tata Institute of Fundamental Research	Ground-based VHE gamma-ray astronomy in India	Invited
Abhay Kumar	ASI2022_549	Physical Research Laboratory	AstroSat CZTI as a sub-MeV spectrometer: hard X-ray spectral states in Cygnus X-1	Oral
Amrutha Lakshmi Vadladi	ASI2022_606	Indian Institute of Technology, Bombay	Daksha: Thermal design and simulations of the payload	Oral
Annapurni Subramaniam	ASI2022_725	IIA	Indian Spectroscopic and Imaging Space Telescope - INSIST: An overview and update	Oral
Annu Jacob	ASI2022_603	Inter-University Centre for Astronomy and Astrophysics, Pune, India	DOTIFS Integral field unit manufacturing overview and associated IFU tests	Oral
Mani Khurana	ASI2022_393	BARC	MACE data Analysis Package (MAP)	Oral
Margarita Safonova	ASI2022_679	Indian Institute of Astrophysics	SAMPLE – A Method of Collection of Stratospheric Samples Using Balloon-Borne Payload System	Oral
MILIND NAIK	ASI2022_251	TATA INSTITUTE OF FUNDAMENTAL RESEARCH	TIFR near infrared astronomical ground based camera's at Indian telescopes	Oral
Mugundhan Vijayaraghavan	ASI2022_536	University of KwaZulu Natal	HIRAX - Progress update	Oral
Nagendra Neerudu	ASI2022_508	Balloon Facility, Tata Institute of Fundamental Research	Scientific Ballooning for Astronomy and Atmospheric Science Studies	Oral
Naveen Dukiya	ASI2022_527	Aryabhata Research Institute of Observational Sciences	Identifying astrometric calibrators in the forthcoming ILMT survey strip	Oral
Pawan Kumar	ASI2022_750	Indian Institute of Astrophysics	Dynamic performance verification of Visible Emission Line Coronagraph on-board Aditya L1 (VELC-L1) prototype.	Oral

Ruta Kale	ASI2022_744	NCRA-TIFR	CAPTURE: Interferometric Data Analysis Pipeline for the Upgraded GMRT	Oral
Sarang Shah	ASI2022_559	India TMT Coordination Center	The Infrared Guide Star Catalogue for the Thirty Meter Telescope	Oral
SONIA GHOSH	ASI2022_202	RAMAN RESEARCH INSTITUTE	STARFIRE: An algorithm for estimating radio frequency interference in orbits around Earth	Oral
SUBHADIP SAHA	ASI2022_108	Indian Institute of Technology, Kanpur	Design of phased radio array for cosmic ray detection	Oral
Vipin K Yadav	ASI2022_89	Vikram Sarabhai Space Centre	Venus Ionospheric Plasma wave detector (VIPER) onboard Indian Venus Orbiter Mission	Oral
Abhijeet Ghodgaonkar	ASI2022_438	Indian Institute of Technology Bombay	Daksha front-end electronics and readout systems	Poster
Adarsh Bathula	ASI2022_667	The Indian Institute of Science Education and Research, Mohali	pinta : The uGMRT Data Processing Pipeline for the InPTA	Poster
Ajay Kumar	ASI2022_340	National centre for radio astrophysics	Search for slowly rotating pulsars with the Canadian Hydrogen Intensity Mapping Experiment (CHIME)	Poster
AMOGHAVARSHA N	ASI2022_334	St. Joseph's College (Autonomous), Bangalore	Design And Development of Single-Channel Warping Harness Controller for TMT SSA	Poster
Arul Pandian B	ASI2022_567	Project Assistant	InPTA pipeline to process legacy GMRT data	Poster
Avinash Kumar	ASI2022_560	Amity - UC Berkeley SETI	SETI India: Using uGMRT to search for advanced extraterrestrial life	Poster
Bharat Chandra	ASI2022_760	Indian Institute of Astrophysics	Electronics Subsystem Development of SING Spectrograph Payload	Poster
Debbijoy Bhattacharya	ASI2022_588	Manipal Centre for Natural Sciences, Manipal Academy of Higher Education	Concept Design of a Wide-Field Imager & Spectrometer for future astronomy mission	Poster
DHARMESH TRIVEDI	ASI2022_515	TATA INSTITUTE OF FUNDAMENTAL RESEARCH, BALLOON FACILITY	Light weight, low-cost telemetry system for balloon-borne experiments	Poster
Gaurav Waratkar	ASI2022_425	Indian Institute of Technology Bombay	Daksha: Structural design, simulations and testing of the payload	Poster
geetakrishnasai gunapati	ASI2022_460	Indian institute of technology Hyderabad	Variational Inference as an alternative to MCMC for parameter estimation and model selection	Poster
Harsh Kumar	ASI2022_209	IIT Bombay	GROWTH-India Telescope: A Robotic Eye for Time Domain Astronomy	Poster
Harsha Avinash Tanti	ASI2022_688	Indian Institute of Technology, Indore	Direction of Arrival using Orthogonally Co-located Antennas for SEAMS mission	Poster
JANMEJOY SARKAR	ASI2022_441	Inter-University Center for Astronomy and Astrophysics and Department of Physics, Tezpur University.	Solar Ultraviolet Imaging Telescope onboard Aditya-L1 – Science Goals	Poster

Jitendra Salal	ASI2022_342	National centre for Radio Astronomy	Detecting pulsars in continuum radio images via scintillation	Poster
K Nagaraju	ASI2022_713	Indian Institute of Astrophysics	Spectropolarimeter on board the Aditya-L1: polarization modulation and demodulation	Poster
Kshitij Bane	ASI2022_91	Indian Institute of Astrophysics	A new facility for pulsar observations at low radio frequencies	Poster
Kushagra Sharma	ASI2022_554	Indian Institute of Technology (BHU), Varanasi	Python-based Finite Volume MHD Solver (PyFUMER) to Model the Dynamics of Magnetized Plasma	Poster (Will Be Moved To "Sun And The Solar System")
Manoj Varma	ASI2022_711	Indian Institute of Astrophysics	The Solar Ultraviolet Imaging Telescope (SUIT) CCD characterization and testing	Poster
Mithun N. P. S.	ASI2022_525	Physical Research Laboratory, Ahmedabad	Updates on Hard X-ray Spectroscopy with AstroSat CZT-Imager	Poster
Mudit Srivastava	ASI2022_492	Physical Research Laboratory, Ahmedabad	Designs of Mt. Abu faint object spectrograph and camera - Echelle Polarimeter (MFOSC-EP) and its prototype for PRL telescopes	Poster
Nagabhushana Subramanya	ASI2022_684	Indian Institute of Astrophysics	Indian Space Imaging and Spectroscopic Telescope(INSIST) - MECHANICAL SYSTEMS	Poster
Natarajan Venkatasubramanian	ASI2022_754	Indian Institute of Astrophysics	Mechanical Design and configuration of Visible Emission Line Coronagraph on-board Aditya L1	Poster
Nishat Parveen	ASI2022_152	University at Albany, State University of New York	The LUX-ZEPLIN (LZ) Dark Matter Experiment	Poster
Prachi Prajapati	ASI2022_597	Physical Research Laboratory	Near Infrared night sky at Mount Abu Observatory	Poster
Pradeep Sandimani	ASI2022_240	Tata Institute of Fundamental Research	Upgradation of Telecommand and Telemetry interfaces for TIFR balloon-borne experiment for far-infrared (FIR) observations of SFR	Poster
Pranav Page	ASI2022_584	Indian Institute of Technology Bombay	Design and simulations of a Compton Imaging Camera for Space Astrophysics	Poster
Pravita Hallur	ASI2022_128	Indian Institute of Science Education and Research, Mohali	A Red-noise Eigenbasis for the Reconstruction of Astronomical Sources	Poster
Sandeep Vishwakarma	ASI2022_510	Tata Institute of Fundamental Research	Daksha CZT detectors and front-end electronics: laboratory testing	Poster
Sarvesh Mangla	ASI2022_348	Indian Institute of Technology Indore	Characterizing ionospheric disturbances using GMRT	Poster
Saurabh Saurabh	ASI2022_201	ARIES	Initial results of the TIFR-ARIES Near Infrared Spectrometer (TANSPEC) on the 3.6m DOT	Poster
Shashikiran Ganesh	ASI2022_722	Physical Research Laboratory	Science with INSIST	Poster

Shubham Ghatul	ASI2022_65	Indian Institute of Astrophysics Bengaluru	Development of Spectrograph in FUV region for a possible ISRO flight	Poster
Shubhangi Jain	ASI2022_373	Indian Institute of Astrophysics	Design and Development of DMD Controller Interface for INSIST	Poster
Soumyadeep Bhattacharjee	ASI2022_468	Indian Institute of Science	ASIMOV - Astronomical Satellites: Is My Object Visible?	Poster
SOURAV PALIT	ASI2022_649	Indian Centre for Space Physics	Daksha: Simulating the mission performance with a Mass model	Poster
Srinadh Reddy Bhavanam	ASI2022_312	Indian Institute of Technology, Hyderabad	Attention Enhanced Deep Learning for Cosmic Ray Detection in Astronomical Images	Poster
Sriram SRI PADMANABAN	ASI2022_745	ENGINEER	DMD based Multi Object Spectrograph for Indian Spectroscopic and Imaging Space Telescope (INSIST	Poster
Sudhanshu Nimbalkar	ASI2022_586	Indian Institute of Technology Bombay	Electronics and hardware development for a Compton Imaging Camera for Space Astrophysics	Poster
Sujay Mate	ASI2022_336	TIFR-Mumbai	Searching for second-timescale radio transients with CHIME telescope	Poster
Tanneeru Venkateswara Rao	ASI2022_450	Balloon Facility of TIFR	An experimental investigation of dual telemetry for balloon-borne experiments	Poster
Tarun Bangia	ASI2022_296	ARIES, Nainital.	Flexible Dome Seal for DOT	Poster
Tsewang Stanzin	ASI2022_330	Indian Astronomical Observatory , IIA Hanle	Development of a closed-loop filterwheel control system for the GROWTH India telescope	Poster
vanshaj kerni	ASI2022_408	Indian Institute of Technology Roorkee	Building a 5m aperture small radio telescope at IIT Roorkee	Poster
Varun Prakash Padikal	ASI2022_127	Christ University	Study of Alignment Sensitivity of NLOT Primary Mirror Segments on Image Quality	Poster
Xiyuan Li	ASI2022_732	The University of Western Ontario	A Joint Chirp-Rate-Time-Frequency Transform for Non-templated BBH Merger Gravitational-Wave Signal Detection Using Spectrograms	Poster

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