

ASI 2026 – List of Selected Abstracts – High Energy Phenomena, Fundamental Physics and Astronomy

Name	Conference ID	Affiliation	Title	Abstract Type by SOC	Comments
Kartick Sarkar	ASI2026_302	Raman Research Institute, Bengaluru	Fermi/eROSITA Bubbles: past, present, and the future	Invited	
Labani Mallick	ASI2026_609	University of Manitoba & CITA, University of Toronto, Canada	Constraining Disk-to-Corona Power Transfer Fraction, Soft X-ray Excess Origin, and Black Hole Spin Population of Type-1 AGN	Invited	
Pankaj Kushwaha	ASI2026_497	Indian Institute of Science Education and Research (IISER) Mohali	X-ray Polarization and Neutrinos: Insights into Blazar's Leptonic vs Hadronic and Single vs Multizone debate	Invited	
Rwitika Chatterjee	ASI2026_455	U. R. Rao Satellite Centre	The First Two Years of XSPECT: Instrument Calibration and Science Highlights	Invited	
Abhisek Tamang	ASI2026_160	Indian Institute of Science & Raman Research Institute, Bangalore	Super-orbital period evolution of Her X-1	Oral	
Ajay Kumar	ASI2026_887	National Centre for Radio Astrophysics	Long-term monitoring of repeating FRB 20220912A with the uGMRT at low radio frequencies	Oral	
Arghajit Jana	ASI2026_226	SRM University AP	Estimating Bolometric Correction using Changing-Look AGNs	Oral	
Camelia Jana	ASI2026_698	Indian Institute of Technology, Guwahati	Impact of winds on accretion shocks in magnetized accretion flows around rotating black holes	Oral	
Gunjan Tomar	ASI2026_355	Indian Institute of Science Education and Research (IISER), Mohali	High Energy Observations of Low-Luminosity Active Galactic Nuclei	Oral	
Indranil Chattopadhyay	ASI2026_891	ARIES	On low to high frequency QPO in microquasars and its relation to the black hole spin	Oral	
Kiran Wani	ASI2026_156	Indian Institute of Astrophysics	Blazar observations with XSPECT onboard XPoSat	Oral	
KOUSHIK BALLAV GOSWAMI	ASI2026_761	COOCH BEHAR PANCHANAN BARMA UNIVERSITY	Investigating the Effect of Density-Dependent B in Higher-Dimensional Approach Admitting a Polynomial EoS for Dense Matter	Oral	
Narendranath Layek	ASI2026_376	Physical Research Laboratory	Discovery of Changing-Look Transitions in NGC 3822: 17-Year Multiwavelength Monitoring	Oral	
NILAKSHA BARMAN	ASI2026_651	Inter-University Centre for Astronomy and Astrophysics	Equations of state of hot and dense matter and implication on Binary Neutron Star post-merger Gravitational Wave signal	Oral	
Prince Sharma	ASI2026_1047	UPES, Dehradun	Torque reversal and cyclotron absorption feature in HMXB 4U 1538-522	Oral	
Rahul Gupta	ASI2026_485	NASA Goddard Space Flight Center	Probing Gamma-Ray Burst Prompt Emission Mechanisms through Spectro-Polarimetric Observations with Fermi and AstroSat	Oral	

Rajesh Kumble Nayak	ASI2026_1048	IISER Kolkata	IndIGO-D: An Indian Initiative in gravitational wave observations in the Deci Hertz band	Oral	will be moved to Facilities, Technologies and Data science
Ramanshu P. Singh	ASI2026_595	Veer Bahadur Singh Purvanchal University	Broadband Spectral-Timing Evolution of GX 339-4 During Its 2023-2024 Outburst Using Multi-Mission Observations	Oral	
Riya Bhowmick	ASI2026_295	Aryabhata Research Institute of Observational Sciences (ARIES)	Properties of X-Ray Flux of Jet During the 2019-2020 Outburst of EXO 1846-031	Oral	
Samir Mandal	ASI2026_575	IIST	Probing the Accretion Dynamics in Black Hole X-ray Binaries using UV-X-ray Spectral Studies	Oral	
Saswati Roy	ASI2026_1005	National Institute of Technology Agartala	Non-Equatorial Deflection of Light due to Kerr-Newman Black Hole: A Material Medium Approach	Oral	
Shaswata Chowdhury	ASI2026_16	The Institute of Mathematical Sciences	CME Signature and Mode Change in InPTA Millisecond Pulsars	Oral	
Shubhagata Bhaumik	ASI2026_742	IIT Bombay	Search for Eccentric Binary Black Hole Mergers in the Third Observing Run of LIGO-Virgo-KAGRA	Oral	
Soma Mandal	ASI2026_751	Government Girls' General Degree College, Kolkata	AstroSat observations of the ultra-compact X-ray binaries 4U 0614-091 and 1A 1246-588	Oral	
Sreetama Das Choudhury	ASI2026_869	Indian Institute of Technology Guwahati	Investigation of Disc-Jet connection in galactic BH-XRBs	Oral	
Sudip Bhattacharyya	ASI2026_356	Tata Institute of Fundamental Research	XSat: A proposed large area X-ray astronomy space mission	Oral	will be moved to Facilities, Technologies and Data science
Sumanta Chakraborty	ASI2026_903	Indian Association for the Cultivation of Science	Black holes fall in Love	Oral	
Sushmita Agarwal	ASI2026_439	Tata Institute of Fundamental Research, Mumbai	Extending the VHE Horizon: Systematic Hunting for high-synchrotron peaked Blazars and Prospects for the Cherenkov Observatory	Oral	
Tanima Mondal	ASI2026_723	IIT Kharagpur	Multi Messenger Study of GRB 221009A with VHE Gamma-ray and Neutrino Afterglow from a Gaussian Structured Jet	Oral	
Abhinandan Yadav	ASI2026_287	Indian Institute of Science Education and Research Bhopal	Low Frequency Radio Imaging of PSR J1818-1607	Poster	
Aditya Pandey	ASI2026_662	Indian Institute of Technology (Indian School of Mines) Dhanbad	Probing Type Ia Supernovae Using Double-Detonation Models	Poster	
Aditya Pawan Saikia	ASI2026_400	Indian Institute of Technology Bombay	Selection Effects in Optical Follow-up of Gamma-Ray Bursts Detected by Wide-Field High-Energy Missions	Poster	
Aditya Sharma	ASI2026_38	Indian Institute of Technology Indore	The Role of IC-CMB in the Radio - X-ray Correlation of High-Redshift AGN Jets: A Numerical Perspective	Poster	

Agniva Roychowdhury	ASI2026_830	National Centre for Radio Astrophysics	Minijets and Broken Stationarity in a Blazar : Novel Insights into the Origin of γ -ray Variability in CTA 102	Poster	
Ajaz Mir	ASI2026_799	Department of Physics, Islamic University of Science & Technology, Awantipora, J&K	Kinetic Modelling of Solar Radio Bursts Generated by Beam–Plasma Interactions	Poster	
Ajisha C Sajayan	ASI2026_974	Indian Institute of Technology Kanpur	Precision Optical Astrometry of X-ray sources at the Galactic center using HST Observations.	Poster	
Akhilesh Ray	ASI2026_971	ARIES, Nainital	Pion production in the Accretion Disk of rotating blackhole	Poster	
AMAN DUBEY	ASI2026_921	INDIAN INSTITUTE OF TECHNOLOGY, INDORE	GEANT4-Based Feasibility Study of a GeV source with LAT-Inspired Detector.	Poster	
Aman Kaushik	ASI2026_361	Tata Institute of Fundamental Research	Characterizing SMC pulsar SXP 46.6	Poster	
Aman Srivastava	ASI2026_386	PhD student, Dept of Physics, IIT Hyderabad	The Indian Pulsar Timing Array Data Release 2: II. Customised Single-Pulsar Noise Analysis and Noise Budget	Poster	
Aman Upadhyay	ASI2026_628	RAMAN RESEARCH INSTITUTE	Understanding the accretion geometry of the M 51 ULX-8	Poster	
Amar Chandra	ASI2026_679	Aryabhata Research Institute of Observational Sciences	Cyclic changes in pulse shape and single pulse properties of PSR J0742-2822	Poster	
Ameya Uday Nagdeo	ASI2026_170	Indian Institute of Astrophysics	Fluctuation dynamos in supersonic turbulence at $Pm \gtrsim 1$	Poster	
AMIT KUMAR	ASI2026_429	Aryabhata Research Institute of Observational Sciences	Investigating temporal features in Swift GRB afterglows: a comparative study of UVOT and XRT data	Poster	
Amit Kumar	ASI2026_618	Indian institute of technology, Guwahati	Study of Neutrino dominated accretion flows (NDAF) around rotating black hole (BH)	Poster	
ANIRBAN SAHA	ASI2026_880	ALIPURDUAR UNIVERSITY	Maximum mass and radius of a charged, anisotropic strange quark star in higher dimensions	Poster	
Ankita Ghosh	ASI2026_178	National Centre For Radio Astrophysics	Jitter, Profile Stability, and Single-Pulse Variability in Millisecond Pulsars: Pulsar Timing Arrays in the SKA Era	Poster	
Anshika Gupta	ASI2026_657	Aryabhata Research Institute of observational Sciences (ARIES), Nainital	Prompt and afterglow properties of the long duration GRB 210306A	Poster	
Antara Ghosh	ASI2026_1044	Inter-University Centre for Astronomy and Astrophysics	Assessing the Improvement in Joint EM-GW Detection by Daksha and LIGO-India Jointly Operating with the Existing Network of Detec	Poster	
Anurag Koparkar	ASI2026_689	Indian Institute of Science Education and Research, Berhampur	Spectral-Polarisation Correlation In Blazars	Poster	
Aratrika Ghosh	ASI2026_419	Tata Institute of Fundamental Research	Vacuum Resonance Induced Depolarization in Neutron Star HMXBs	Poster	
Arijit Sar	ASI2026_199	Presidency University, Kolkata	Variable Corona Height as the Origin of UV–X-ray Lag Variability in NGC 7469	Poster	
ARIT BALA	ASI2026_197	Presidency University, KOLKATA	Probing the Nature of Magnetic Field in Blazar Jets from Multi-Wavelength Variability	Poster	
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Arushi Kumar	ASI2026_702	Indian Institute of Space Science and Technology Thiruvananthapuram	Dust scattering of X-ray photons from Gamma ray bursts	Poster	
Arvind Balasubramanian	ASI2026_781	Indian Institute of Astrophysics	The nature of the persistent radio source associated with FRB190520B	Poster	
ASHISH NARAYAN	ASI2026_669	TIFR Mumbai	Searches for Neutrino emission from the Cygnus Region in Ten Years of Public IceCube Data	Poster	
Asit Karan	ASI2026_475	Indian Institute of Science Education and Research Bhopal	Imprints of non-symmetric dark matter haloes on magnetars: a two-fluid perspective.	Poster	
ASWATHI V	ASI2026_397	Indian Institute of Astrophysics	Neutron Polarization in Lithium Photodisintegration	Poster	
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AYON MONDAL	ASI2026_33	PRESIDENCY UNIVERSITY, KOLKATA	A Two-Decade X-ray and UV Spectral-Timing Study of Mrk 766: Disk Reflection, Outflows, and the Evolution of Fe α Complex	Poster	
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