

Session	Speakers	Time	Title of the Talk	
Day 1 (16th February 2024)				
Registration (till 2.00pm)				
Session 1	Space Missions	Devendra Bisht	2:00-2:05 PM	Welcome and the overview of the program
2:00 – 4:05 PM		S K Chakrabarti	2:05-2:30 PM	Welcome by Director, ICSP & Dignity stratospheric balloon missions of ICSP
		A R Rao	2:30-2:55 PM	AstroSat mission
Chair: Archan S Majumdar		Anuj Nandi	2:55-3:20 PM	Aditya-L1- India's Space-based Solar Observatory with First Light
		Ranjan Gupta	3:20-3:45 PM	Regolith Research and Recent Asteroid Return Missions
		Sourav Palit	3:45-4:05 PM	Computer modeling of an High energy space satellite: Mass model and Monte Carlo background estimation
Tea Break+Poster session (4:05 PM- 4:30 PM)				
Session 2	Compact Objects	Sandip K Chakrabarti	4:30-4:55 PM	An overview of accretion/ejection problem around compact objects
4:30 – 6:00 PM		Indranil Chattopadhyay	4:55-5:20 PM	Computing spectra in two-temperature advective accretion flows around compact objects
		Samir Mandal	5:20-5:45 PM	Polarization studies of Black hole X-ray binaries
Chair: A R Rao		Soumen Mondal	5:45-6:00 PM	Dissipative shocks in accretion flows: A theoretical forecast of the spectral state transitions in XRBs
6:00 – 7:00 PM		Museum Visit		
7:00 – 9:00 PM		Dinner		
Day 2 (17th February 2024)				
Breakfast (8:00 AM- 9:30 AM)				
Session 3	Compact Objects	Banibrata Mukhopadhyay	10:00-10:25 AM	QPOs of compact sources and measuring the spin of black hole
10-11:25 AM		Santabrata Das	10:25-10:50 AM	Role of pseudo-potentials in studying relativistic hot accretion flow around rotating black holes
		Sudip K Garain	10:50-11:10 AM	Three Dimensional Simulations of Advective, sub-Keplerian accretion flow onto Non-rotating Black Holes
Chair: Ranjan Gupta		Ishika Palit	11:10-11:25 AM	Relativistic Spherical Shocks in Expanding Media
Tea Break (11:25 AM- 12:00 PM) : Inauguration of the Building and Conference Photo session				

Session 4	Compact Objects	Sabyasachi Pal	12:00-12:15 PM	Study of the irregular morphology radio galaxies
12- 1:30 PM		Shubhrangshu Ghosh	12:15-12:30 PM	Can Shocks Induced by Galactic Potential of Host Massive Ellipticals Resolved Morphological Dichotomy in Radio Galaxies?
Chair: Santabrata Das		Soma Mondal	12:30-12:45 PM	AstroSat Observations of 4U 1636-536: timing and spectral studies
		Arka Chatterjee	12:45-1:00 PM	Tidal Disruption Events: Supermassive Black Holes Living the Life of Stellar Mass Black Holes
		Broja Gopal Dutta	1:00-1:15 PM	The Origin of Hard/Soft lag in Galactic black hole binaries and bare-type AGN
		Arghajit Jana	1:15-1:30 PM	Exploring Changing-Look Active Galactic Nuclei with Long-term Multiwavelength Observations
Lunch Break+Poster session (1:30 PM-2:30 PM)				
Session 5	Compact Objects	Santanu Mondal	2:30-2:45 PM	Imprints of accretion-ejection flows around black holes
2:30-4:00 PM		Abhrajit Bhattacharjee	2:45-3:00 PM	An accurate pseudo-Kerr formalism and its application to study transonic flows around black holes
		Rohan Raha	3:00-3:15 PM	Magnetized accretion flows and jets around black holes: High Performance Simulation and Theory
Chair: Banibrata Mukhopadhyay		Dusmanta Patra	3:15-3:30 PM	Investigating Spectral Index Variation in X-shaped Radio Galaxies
		Prantik Nandi	3:30-3:45 PM	Survey of Bare Active Galactic Nuclei in the Local Universe ($z < 0.2$). On the Origin of Soft Excess
		Rajiv Kumar	3:45-4:00 PM	Simulations of accretion disk structures around black hole with various outer boundary conditions
Tea Break+Poster session (4:00 PM- 4:30 PM)				
Session 6	Cosmology and Compact Object	Archan S Majumdar	4:30-4:55 PM	Large-scale inhomogeneities, modified evolution and propagation of gravitational waves in the current Universe
4:30-5:45 PM		Debanjan Bose	4:55-5:20 PM	Study of Astrophysical Objects with Energetic Messengers : Gamma-rays & Neutrinos
		Suman Bala	5:20-5:30 PM	Gamma-Ray Bursts (GRBs) and multimessenger astronomy
Chair: G C Anupama		Prajwal Majumder	5:30-5:45 PM	Energy dependent spectro-temporal study of HFQPOs of GRS 1915+105 during softer variability state: A multi-mission approach
5:45 – 7:00 PM		Museum visit		
7:00 – 9:00 PM		Director's Dinner		
Day 3 (18th February 2024)				
Breakfast (8:00 AM- 9:30 AM)				
Session 7	Space Science and Space Weather	S C Chakravarty	10:00-10:25 AM	Space weather and its prediction
10-11:30 AM		Devendra K. Ojha	10:25-10:50 AM	Space Science Exploration using Balloons as Suborbital Platforms
		Subrata K. Midya	10:50-11:15 AM	Atmospheric Research- Past and Future
Chair: Eswar Reddy		Sushanta Kumar Mondal	11:15-11:30 AM	Impact of a major sudden stratospheric warming event the mid- latitudes ionosphere

Tea Break+Poster session (11:30 AM- 12:00 PM)				
Session 8	Space Science and Space Weather	Sujay Pal	12:00-12:15 PM	Monitoring lower-ionospheric disturbances associated with the impulsive transient sources like Gamma Ray Burst and lightning
		Prithvi Raj Singh	12:15-12:30 PM	Relation between Solar Activity parameters during the Maximum Phase of Solar Cycle 24
12- 1:30 PM		Arnab Sen	12:30-12:45 PM	Impact of the Severe Geomagnetic Storm of April 2023 on the Lower Ionosphere Observed by VLF/LF Signals
		Tamal Basak	12:45-1:00 PM	Modeling of D-region perturbation during solar eclipse using sub-ionospheric VLF signal perturbations recorded across multiple propagation paths
Chair: S C Chakravarty		Kheyali Barman	1:00-1:15 PM	Study of solar flares from ground based VLF remote sensing method
		Sayak Chakraborty	1:15-1:30 PM	D-region ionosphere and its Response to Solar Flares
Lunch Break+Poster session (1:30 PM-2:30 PM)				
Session 9	Space Science and Space Weather + Thesis talk	A. Shanmugaraju	2:30-2:55 PM	Relation between some solar energetic eruptions and space-weather events in solar cycle 24
		Javed Akhtar	2:55-3:15 PM	AI / ML based prediction of post monsoon cyclonic disturbances over Bay of Bengal
2:30-4:15 PM		Aswin Amirtha Raj S	3:15-3:30 PM	Correlating CME Velocity with Sunspot Magnetic properties for Space Weather Implications.
		Rupnath Sikdar	3:30-3:45 PM	Study of Secondary Cosmic Rays using Small Stratospheric Balloon-Borne Missions
		Sujoy Nath	3:45-4:00 PM	Study of several low mass X-ray binary outbursts using multi-satellite observations
Chair: Subrata K Midya		Jayshree Kundu	4:00-4:15 PM	Development of Computational Code to estimate Non-Relativistic Contribution of Mercury's Perihelion Precession
Tea Break+Poster session (4:15 PM- 4:30 PM)				
Session 10	Job Seekers / Employers meet	Panelists: S C Chakravarty, Eswar Reddy, G. C. Anupama, Banibrata Mukhopadhyay, Ranjan Gupta		
4:30-6:00 PM				
Moderator: S K Chakrabarti				
6:00 – 7:00 PM		Museum visit		
7:00 - 9:00 PM		Dinner		
Day 4 (19th February 2024)				
Breakfast (7:30 AM- 8:30 AM)				
Session 11		Eswar Reddy	9:00-9:25 AM	Lithium Evolution in the Galaxy

Session 11	Observational Astronomy	G C Anupama	9:25-9:50 AM	Supernova studies with small telescopes
9-10:30 AM		Patrick Das Gupta	9:50-10:15 AM	Observed Bi-modality in the Luminosity Density Distribution of Fast Radio Bursts
Chair: Ranjan Gupta		Aritra Chakrabarty	10:15-10:30 AM	Where are the Water Worlds?
Tea Break+Poster session (10:30 AM- 10:50 PM)				
Session 12	Observational Astronomy	Annapurni Subramaniam	10:50-11:15 PM	Highlights from two surveys of Galactic star clusters (UOCS and GlobULeS) using AstroSat
10:50 - 12:35 PM		Ram Sagar	11:15-11:40 PM	Devasthal Observatory, ARIES, Nainital
Chair: Ranjan Gupta		Jayant Murthy	11:40-12:05 PM	New advances in the diffuse ultraviolet background
		Gargi Shaw	12:05-12:20 PM	Spectroscopic Simulation of Astrophysical Environments using CLOUDY
		Siddhartha Biswas	12:20-12:35 PM	Evidence of Global Hierarchical Collapse towards Hub-Filament System Sh2-87
12:35-12:40 PM	Closing of Conference at ICSP, Kolkata and Vote of thanks – Tamal Basak			
Lunch Break (12:40 PM-1:30 PM)				
1:30 – 6:00 PM	Move to IERCOO Observatory, Sitapur, West Midnapore			
Tea Break (6:00 PM- 6:30 PM)				
6:30 – 8:00 PM	Night sky watching, Interaction and Photo session			
8:00-9:30 PM	Dinner			
Day 5 (20th February, 2024)				
Breakfast (7:00 AM- 9:30 AM)				
Session 14	Astronomy	Ashish Raj	10:00-10:20 PM	Optical study of nova V5579 Sgr and V5584 Sgr
10-11:10 AM		Devendra Bisht	10:20-10:40 PM	Variability of stars in open clusters
		Majidul Rahaman	10:40-10:55 AM	Thermodynamic Perturbations in the Center of Cool Core Clusters Induced by AGN Feedback
Chair: G C Anupama		Mohit Bisht	10:55-11:10 AM	Basics of Cloudy
Tea Break (11:10 AM- 11:45 AM)				

Session 15	Astronomy	Kuldeep Belwal	11:45 AM-12:00 PM	Data reduction and analysis of open clusters
11:45 AM – 12:30 PM		Bijan K Gangopadhay	12:00-12:15 PM	Analyzing Critical Mass Thresholds for Neutron Star and Black Hole Formation in Gravitational Collapse
Chair: G C Anupama		Ritesh Singh	12:15-12:30 AM	Evidence for possible underestimation of systematic uncertainties in the cosmic distance ladder
Lunch Break (12:30 PM-2:00 PM)				
Session 16	Interactive session	Discussion / Visit of VLF monitoring facility: Conducted by Tamal Basak, Sourav Palit		
2 – 4:00 PM				
Tea Break+interaction (4:00 PM- 5:30 PM)				
5:30 – 8:00 PM	Night sky watching, Interaction and Photo session			
8:00-10:00 PM	Dinner			
Day 6 (21st February 2024)				
Breakfast (7:00 AM- 9:30 AM)				
Session 17	Interactive session	Discussion / Hands on session on Optical astronomy facility: Conducted by Ashish Raj, Devendra Bisht		
10 AM– 12:30 PM				
Lunch Break (12:30 PM-1:30 PM)				
1:30 – 5:00 PM	Closing of Conference and return from Observatory			
Posters (16th to 19th February 2024)				
	Name	Title of the Presentation		
	Aditi Manchanda	Estimation of Photometric Redshifts using Machine Learning		
	Tapan Sasmal	Miscellaneous radio galaxies from LOFAR survey		
	Tridib Roy	Multiband polarization profile analysis of three components radio pulsars by implementing relativistic phase-shift method		
	Athira Nandkumar	Spectral and temporal properties of NGC 4395 X-1 using XMM-Newton observations		

Subartha Das Gupta	Understanding the variability in the B-supergiant HD 37128
Simon Murmu	Advancing Research and Astronomical Observations with the BAM (Beta Attenuation Monitor) 1022
Abhijit Mondal	Morphological and photoionization study of PN M1-4
Sharadha Biswas	Searching for short term transit timing variation in WASP-19 system
Bijan Kumar Gangopadhyay	Analyzing Critical Mass Thresholds for Neutron Star and Black Hole Formation in Gravitational Collapse
Anurag Chaudhri	Flaring potential of different sunspot groups during different phases of Solar Cycle-24
Instructions for poster presenters	<p>* Please place your poster in the designated spot as soon as you arrive. It should stay there until February 19th, after which you can take it down. We won't be responsible for the poster thereafter.</p> <p>* Your poster must be fit in 2*4 Feet area.</p>