

CHAICA VI		
Schedule: September 29, 2025		
All times are in Indian Standard Time (=UTC + 5:30)		
12:30	Registration	
13:00	Lunch	
14:00	Welcome and Introduction by the LOC and SOC	
14:20	Wladimir Lyra	Computational planet formation: what do we need from the next generation of models?
14:55	Hanno Rein	N-body simulations of planetary systems
15:30	Tea / Coffee	
16:00	Emily Boudreaux	New Dimensions in Stellar Structure and Evolution
16:35	Samprity Das	Study of Compact stars in modified $f(Q)$ gravity framework
16:55	Poojan Agrawal	Stellar Evolution: A Tale of Many Dimensions
17:15	Michiko Fujii	Star-by-star globular cluster formation simulation
17:35	Jonathan Mackay	Numerical models for colliding winds in single and binary star systems

CHAICA VI		
Schedule: September 30, 2025		
All times are in Indian Standard Time (=UTC + 5:30)		
9:30	Jayanta Roy	SPOTLIGHT: A Transformative Exploration of the Fast Radio Transient Sky with the GMRT
10:10	Sukhdeep Singh	Fast estimators for the bispectrum of cosmological fields
10:30	Tea / Coffee	
11:00	Tanya Tripty	An Unbiased MHI and M* Scaling Relation in the Local Universe
11:20	Sauraj Bharti	Joint optical-HI mock catalog and prospects for upcoming HI surveys
11:40	Ashish Kumar Meena	Exotic image formation in cluster lenses
12:00	Surajit Paul	MITRO: a novel algorithm for identifying gravitationally bound cosmological structures
12:20	Ayan Nanda	Self-Similarity of Halo Shapes in Cosmological Simulations
12:40	Ankit Singh	Calculating Dust attenuated SED for galaxies in Horizon Run 5 Simulation using Powerday Code
13:00	Lunch	
14:00	Keiya Hirashima	Galaxy simulations with AI
14:35	Bhaskar Arya	Neural Network-Based Inference of Lyman-Alpha Spectra from 1D Matter Fields
14:55	Jithu J Athalathil	Investigating Nonlinear Quenching Effects on Polar Field Buildup Using Physics-Informed Neural Networks
15:15	Soumak Maitra	Reconstructing the Cosmic Web: Tomographic reconstruction of dark matter density in 3D from Lyman- $\alpha$ forest using deep learning
15:35	Tea / Coffee	
16:10	Joseph Johnson	Kernel dependence of the Gaussian Process reconstruction of late Universe expansion history
16:30	H K Jassal	Estimation of Cosmological Parameters
16:50	Mamta Gulati	Reconstructing Rotation Measure maps of spiral galaxies using sparse data interpolation and extrapolation techniques & generation of seed data for neural network models.

CHAICA VI		
Schedule: October 1, 2025		
All times are in Indian Standard Time (=UTC + 5:30)		
9:30	Prateek Sharma	Modeling multiphase galactic atmospheres
10:05	Hsi-Yu Schive	GAMER: An Open-Source GPU Code for Scalable AMR and Multi-Physics Simulations
10:25		
11:20	Shyam Menon	Novel Capabilities in Radiation Hydrodynamics with VETTAM
11:40	Prateek Mayank	Next-Generation MHD Modeling of Solar Wind using Neural Operators
12:00	Chi-Hong Lin	Tracing the Diversity of Dwarf Galaxy Formation: Insights from High-Resolution Simulations
12:20	Kartick Sarkar	Tracking ions and radiation in a hydrodynamical simulations
12:40	Amit Mondal	Probing the spatial and velocity anisotropies in stellar halos from the Aquarius simulations
13:00	Lunch	
14:00	Robin Thomas	Probing the star formation in sub-kpc scales
14:20	Prachi Khatri	Modelling molecular gas and its tracers with HYACINTH
14:40	Sandeep Kumar Kataria	Bar Pattern Speed Evolution: Role of Subgrid Physics in Cosmological Hydrodynamical Simulations
15:00	Subah Sharma	Suppression of large scale dynamo growth due to rotation in stratified systems.
15:20	Sutirtha Sengupta	Dance to Demise -- How Massive Stars May Form Dense Circumstellar Shells Before Explosion
15:40	Tea / Coffee	
16:10	Mitali Damle	Combining Radiative Transfer with Particle-based simulations for dust modeling
16:30	Ilya Kondratyev	Forecast -- a Coarray Fortran code for astrophysical MHD
16:50	Daniela Huppenkothen	Machine Learning in Astrophysics: An (Incomplete) Overview

CHAICA VI		
Schedule: October 2, 2025		
All times are in Indian Standard Time (=UTC + 5:30)		
9:00	Nicholas MacDonald	The Ole Miss Blazar Group: Monitoring & Modeling Blazar Jets Across the Electromagnetic Spectrum
9:35	Aditya Sharma	Probing AGN Jet Feedback Across Cosmic Time: A Simulation Perspective
9:55	Jasjeet Singh Bagla	Simulations of lensing in redshifted 21cm line for cluster lenses
10:15	Swati Gavas	Numerical Artefacts of Restricted Power Spectrum in cosmological N-Body Simulations: Effects on Halo Properties
10:35	Discussion and Closing	
11:00	Tea / Coffee	