

Program Schedule for National Conference on Bridging Observations and Simulations in CGM–IGM Science

Date: 4–6 September 2026

**Department of Physics and Astronomical Science,
Central University of Himachal Pradesh, Dharamshala**

Time	Name	Title
Day 1, 04/09/2026, Friday		
Chair: Hum Chand		
9:30-10:00	Inauguration	
10:00-11:00	R. Srianand	Challenges in simulating the CGM around galaxies
Tea Break (11:00-11:30)		
11:30-12:00	Abhijeet Anand	The First Blind Survey of Intervening Na I Absorbers: Incidence and Cosmic Evolution with DESI DR1
12:00-12:20	Reena Chaudhary	Cool circumgalactic gas at the disk–halo interface using Mg II absorption
12:20-12:40	Paryag Sharma	Understanding the Circumgalactic medium using Mg-II absorption.
12:40-13:00	Sumukha R. Bharadwaj	Warm-Hot Circumgalactic Gas in Galaxy Pair Halos: Ne VIII and O VI Absorption
Lunch (13:00-14:30PM)		
Chair: Vikram Khaire		
14:30-15:00	Rajeshwari Dutta	Towards understanding metal-enriched gas around galaxies using observations and simulations
15:00-15:20	Suvajit Sardar	MeerRings: A Deep HI Census of Collisional Ring Galaxies and Their Environments
15:20-15:40	Dharmender	Molecular Hydrogen in Neutral Hydrogen Gas Reservoirs at $z \sim 3$
15:40-16:00	Subhajit Pal	MUSEQuBES: Cosmic Evolution of the Gaseous Halos of Dwarf Galaxies
Afternoon Tea (16:00 - 16:30)		
Chair: Pankaj Khushwaha		
Lightning Talks for Posters (16:30-17:30) (Anukalpa Bhaumik; Priya Sharma; Khushi Mehta; Pratik Chandra Nath; Zahid Mamud; Arnab Biswas; Gayatri P; Abhiram K, Madhu Sudan, Anshul Kumar Sharma, Saikhom Johnson Singh)		
Poster session		

Time	Name	Title
Day 2, 05/09/2026, Saturday		
Chair: Rajeshwari Dutta		
10:00-11:00	Nishikanta Khandai	The Spatial Distribution of Diffuse Gas in Halos
Tea Break(11:00-11:30)		
11:30-12:00	Anirban Chakraborty	Spatial Clustering of High-Redshift Galaxies in the NINJA Simulations
12:00-12:20	Meemik Roy	Bow Shocks, Radiative Cooling, and Mass Entrainment in the Circumgalactic Medium Around Runaway Supermassive Black Holes
12:20-12:40	Jashanpreet Singh Dingra	Dead Ends and Active Nuclei: Tracing the Evolutionary Paths of JWST LRD Candidates in IllustrisTNG
12:40-13:00	Himanshu Khirswal	The Role of CGM–IGM Interactions in Regulating Star Formation in Galaxies: Gas Accretion and Feedback
Lunch(13:00-14:30PM)		
Chair: Nishikanta Khandai		
14:30-15:00	Sowgat Muzahid	Probing Anisotropy in the CGM
15:00-15:30	Ritish Kumar	The Diffuse Baryon Reservoir of the Low-redshift Cosmic Web
15:30-15:50	Samir Niranjana Sethi	Constraining the Circumgalactic Medium with Fast Radio Bursts: Fisher Forecasts for SKA
15:50-16:10	Tamal Mukherjee (Online)	Between the Peaks: Tracing Galaxy–CGM Evolution and Gas Accretion with Ly α emission (Online)
Afternoon Tea + Poster Session (16:10 - 17:30)		

Time	Name	Title
Day 3, 06/09/2026, Sunday		
Chair: Sowgat Muzahid		
10:00-11:00	Vikram Khaire	UV background and Lyman-alpha forest
Tea Break		
11:00-11:20	Kartik Kambhampati	Constraining Temperature Fluctuations in the Intergalactic Medium Using Ly α Forest at $4 < z < 5$
11:20-11:50	Hum Chand	Probing Quasar Environments from kpc to Mpc Scales Using Closely Spaced Quasar Pairs
11:50-13:00	Concluding session	
Lunch (13:00 - 14:30)		