

10 November 2024

Day 4: Program

Venue:

Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka

Day 4	10 November 2024 (Sunday)	Venue: Nabab Nawab Ali Chowdhury Senate Bhaban, University of Dhaka
09:00 – 11:00	Session X: Session Chair: Professor Abhishek Dhar	
09:00 – 09:30	Invited Talk 20:	Critical Transitions in Complex Dynamical Systems: Theory and Applications to Ecosystems and Climate - Ulrike Feudel
09:30 – 10:00	Invited Talk 21:	Protein/Protein and Protein/DNA Interactions: insight from in silico study - Narayan Prasad Adhikari
10:00 – 10:30	Invited Talk 22:	Photoexcited Electrons' Transport in Metal-oxides: Polaron formation - Muhammad N. Huda
10:30 – 11:00	Invited Talk 23:	Subhro Bhattacharjee
11:00 – 11:20	Tea Break	
11:20 – 13:20	Session X: Session Chair: Professor Tibra Ali	
11:20 – 11:50	Invited Talk 24:	The Higgs Boson: the Particle which Stands Out in Fundamental Physics - Biswarup Mukhopadhyaya
11:50 – 12:20	Invited Talk 25:	Rajdeep Sensarma
11:20 – 12:50	Invited Talk 26:	Kramers-Wannier Duality in Non-abelian Ising Models - Nafiz Ishtiaque*
12:50 – 13:20	Invited Talk 27:	Infrafield effects violate Landau Yang Theorem - M Arshad Momen
13:20 – 14:00	Lunch Break	
14:00 – 16:00	Session X: Session Chair: Professor M Arshad Momen	
14:00 – 14:30	Invited Talk 28:	Non-Monotonic Nuclear Potentials from Energy Density Functional Methods - Abdullah Shams Bin Tariq

14:30 – 15:00	Invited Talk 29:	Exploring Electronic and Magnetic properties of Pristine, Strained, and Defected MXenes - Gopi Chandra Kaphle
15:00 – 15:30	Invited Talk 30:	Saurabh Basu
15:30 – 16:00	Invited Talk 30:	Parvez Hoodbai
14:00 – 15:15	Session XI: Contributory Session [Parallel Session] Session Chair: Professor Narayan Prasad Adhikari	
14:00 – 14:15	Contributory Talk 1:	Can we engineer the uncontrollable? Controlling noise via optimal quantum control to boost compass sensitivity in biradical spin systems - Farhan Tanvir Chowdhury
14:15 – 14:30	Contributory Talk 2:	First Epitaxial Synthesis and Characterization of MnSb/InSb Hybrid Structures on GaAs (111) B for Spin-FET Applications - Md Faysal Kabir
14:30 – 14:45	Contributory Talk 3:	Back to the Origins of Brane-Antibrane Inflation - Ahmed Rakin Kamal
14:45 – 15:00	Contributory Talk 4:	Investigation of Pore Formation and Its Evolution to Vesicle Burst: Interaction of AMP with GUVs in Presence of Osmotic Pressure - M. M. Billah
15:00 – 15:15	Contributory Talk 5:	Development of A Portable LED-based Light Source with Selectable Wavelengths, Intensities and Illumination Periods for Photophysical and Photochemical Studies - Syed Farid Uddin Farhad
16:00 – 16:20	Tea Break	
16:20 -17:00	Discussion and Closing Ceremony	