

Program schedule of the conference on “Physics of non-equilibrium systems”

Day 1: May 22, 2025 (Thursday)

Time	Name of the speaker	Title of the talk
8:00 am – 9:00 am	Registration	
9:00 am - 9:10 am	Director’s speech	
Chair : To be updated soon		
9:10 am – 9:45 am	Arnab Das	Ergodicity breaking in the Thermodynamic Limit: Dynamical Freezing and Emergent Conservation Laws
9:45 am – 10:15 am	Tapan Mishra	Arresting the dynamics of magnon bound state by relaxing kinetic constraint
10:15 am – 10:50 am	Arnab Sen	Sublattice scars in a two-dimensional U (1) quantum link model
10:50 am – 11:10 am	Tea and snacks	
Chair : To be updated soon		
11:10 am – 11:45 am	Subhasis Sinha	Non equilibrium and non linear dynamics of atom photon interacting system
11:45 am - 12:15 pm	Rejish Nath	Quantum state engineering in Rydberg atomic arrays
12:15 pm – 12:50 pm	Sanjukta Roy	Non-equilibrium Many-Body Physics with ultra-cold Rydberg atoms
1:00 pm – 2:30 pm	Lunch	
Chair : To be updated soon		
2:35 pm – 3:10 pm	Rajdeep Sensarma	Non Equilibrium Dynamics of Interacting Bosons: Steady States and Dynamical Transitions
3:10 pm – 3:40 pm	Sthitadhi Roy	Imprints of quantum information scrambling on eigenstate correlations
3:40 pm – 4:10 pm	Sayan Choudhury	The Floquet central spin model: A platform to realize eternal time crystals, entanglement steering, and multiparameter metrology
4:10 pm – 4:30 pm	Snacks	
Chair : To be updated soon		
4:30 pm - 5:05 pm	Dibyendu Roy	Spectral form factor in the chaotic phase of generic periodically kicked interacting quantum many-body systems
5:05 pm – 5:35 pm	Atanu Rajak	Drive induced universal freezing in quasiperiodic chains
5:35 pm – 6:05 pm	Tanay Nag	Exotic phases in non-Hermitian extended SSH models
6:05 pm – 6:20 pm	Hillol Biswas	Various phases of discrete time crystal in driven central spin model

Day 2: May 23, 2025 (Friday)

Time	Name of the speaker	Title of the talk
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Chair : To be updated soon

9:00 am – 9:35 am	Deepak Dhar	Irreversibility and transience in a model of many sokobans and boxes on a line
9:35 am – 10:10 am	Punyabrata Pradhan	Dynamic fluctuations in systems with broken time-reversal symmetry and centre-of-mass conservation
10:10 am – 10:40 am	Archak Purkayastha	Non-Markovian Quantum Mpemba Effect
10:40 am – 10:55 am	Anirban Ghosh	Stochastic search process under resetting
10:55 am – 11:10 am	Ramu Kumar Yadav	Study of unzipping transitions in an adsorbed polymer by a periodic force
11:10 am – 11:30 am	Tea and snacks	

Chair : To be updated soon

11:30 am – 12:05 pm	Manik Banik	Quantum Incompatibility in Parallel vs Antiparallel Spins
12:05 pm – 12:40 pm	Arti Garg	Periodically driven quantum many-body systems
12:40 pm – 12:55 pm	Moumita Indra	Collective Excitation of Dipolar Rotating Trapped Bose Atoms
1:00 pm – 2:30 pm	Lunch	

Chair : To be updated soon

2:35 pm – 3:10 pm	Krishnendu Sengupta	Entanglement asymmetry and quantum Mpemba effect in closed driven quantum systems
3:10 pm – 3:40 pm	Saikat Ghosh	Tunable time-crystalline phases in nano-mechanical resonator
3:40 pm – 4:10 pm	Arijit Kundu	Steady state occupation and quantized transport in Floquet systems
4:10 pm – 6:00 pm	Poster session and Tea/Snacks	
6:00 pm – 6:30 pm	Concluding Remarks	
