

In-House Symposium, Department of Physics, IIT Palakkad

May 21, 2022, Saturday, (Room 203, Nila Campus)

Talks

Time	Speaker	Talk Title
09:15 Commencement		
09:30-10:30	Prof. Chandan Dasgupta, Department of Physics, IISc, Bangalore.	Living Glass: Active Matter at High Densities
10:30 to 11:00 Break		
Session 1 : Chairperson - Ranjuna M K		
11:00 - 11:30	Dr. Kusum Dhochak	Exactly Solvable 1D Quantum Models with Gamma Matrices
11:30 - 11:45	Jeena S.K.	Origin of carbon in the early Galaxy and CEMP-no stars
11:45 - 12:00	Harikrishnan K. J.	Probing topological phases and phase transitions with entanglement
12:00 - 12:15	Nikhil Joseph Joy	Opening Bandgap in Graphene by hetero-structuring
12:15 - 12:30	Dr. Soham Manni	Structural Transition in PrIr_3B_2 single crystal
12:30 to 14:00 Poster Session + Lunch Break		
Session 2 : Chairperson - Diljith T		
14:00 - 14:15	Lidhyal, Veena and Karthikeyan	In-house experimental setup for measuring Latent Heat of Vaporization of Liquid Nitrogen
14:15 - 14:30	Revathy B.S.	Bath engineering in Many body Quantum Heat Engines
14:30 - 15:00	Dr. Soudamini Sahoo	Morphology of a flexible transition active copolymer
15:00 to 15:30 Break		
Session 3 : Chairperson - Aathira Murali		
15:30 - 15:45	Aiswarya Lakshmi K.K.	Signal Processing Techniques for Dual Polarization Doppler Weather Radar Observations
15:45 - 16:00	Swathi T.S.	Generalized SYK models in double scaling limit
16:00 - 16:15	Indrajit Bhattacharjee	Fabrication of stiffness gradient substrate by using surface topography.

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Posters (12:30 to 14:00)

Board No.	Presenter	Poster Title
1.	Asha Ann Abraham	Spin - Orbit Coupled states of Double Perovskite 4d/5d TMOs
2.	Ranjuna M K	Thermal transport in gold decorated graphene
3.	Aathira Murali	Simulation of chitosan to study its dependence on temperature
4.	Reshna Elsa Philip	Spin transport properties based on Heusler alloy-Spin gapless semiconductors.
5.	Jithin G Krishnan	Bounds on localizable entanglement in noisy multiparty quantum states
6.	Siji S Saju	Tumbling dynamics of active polymer in simple shear flow
7.	Shewta Saini & Sidharth K.	Study of vesicle motion under thermal and mechanical noise
8.	Chandrima B Pushpan	Quantum spin ladders in strong rung coupling limit
9.	Diljith T.	Microphase Separation in Bottlebrush Polymers under poor solvent conditions - A Molecular Simulation Study
10.	Harsh Sharma	Kicked ising systems as medium for efficient Quantum Otto Heat Engines.
11.	Olivia Vincent & Nithya	Interaction of antimicrobial peptides with Giant unilamellar vesicles
12.	Sivadas P	Investigation of interaction between Giant Unilamellar Vesicles(GUVs) and sequence-defined macromolecules (SDMs)
13.	Urvashi Nakul	Stationary states of active Brownian particle in harmonic trap without translational diffusion