Conference on "Exploring Quantum and Thermal fluctuations in Frustrated Magnets at Low Temperature" S. N. Bose National Centre for Basic Sciences, Kolkata $26^{\text{th}}-27^{\text{th}} \text{ December, } 2023$

Venue: Fermion Hall

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Tuesday, 26 December 2023	
09.00 - 09.30	Registration
09.30 - 09.45	Opening remarks
Session I: Chair – Nitesh Kumar	
9.45 – 10.15	Tanusri Saha-Dasgupta (SNBNCBS) (First-principles insights on Low dimensional Quantum spin systems)
10.15 – 10.45	Bhavtosh Bansal (IISER Kolkata) (Critical fluctuations at spinodal singularities)
10.45 – 11.15	Mintu Mondal (IACS) (Unveiling critical singularities in second-order electronic-transitions: Insights from CDW order parameter fluctuations in quasi-1D system, (TaSe4)2I)
11.15 – 11.30	Tea Break
Session II : Chair – Avijit Chowdhury	
11.30 – 12.00	Chandan Mazumdar (SINP) (Unveiling the rare spin-glass state in novel quaternary Heusler alloy FeRuMnGa)
12.00 – 12.30	Urmimala Maitra (IACS) (TBA)
12.30 – 13.00	Subhadeep Datta (IACS) (TBA)
13.00 – 15.30	Lunch Break + Poster Session
Session III : Chair – Arijit Haldar	
15.30 – 16.00	Indra Dasgupta (IACS) (Frustration Induced Novel Magnetism in Quantum Matter)
16.00 – 16.30	Debashree Ghosh (IACS) (TBA)
16.30 – 17.00	Bheemalingam Chittari (IISER Kolkata) (Orbital Hall Effect in layered two-dimensional materials)
17.00 – 17.30	Ayan Datta (IACS) (Harnessing Quantum Mechanical Tunneling for Catalysis)

Tea + *Discussion*

17.30 - 18.00

Arup Kumar Raychaudhuri (CSIR-CGCRI) (Nyquist Noise spectroscopy in a Coulomb glass in equilibrium and under a driving force: A paradigm of Frustrated system)
Kalpataru Pradhan (SINP) (Frustration driven antiferromagnetic half- metallic phase in half-filled diluted Hubbard model)
Partha Mahata (Jadavpur University) (Magnetic and Optical Properties of Metal-Organic Materials)
Tea Break
Sugata Ray (IACS) (Unusual electronic behavior of mixed valent pyrochlore iridates)
Subhasis Sinha (IISER Kolkata) (Formation of Supersolids at finite temperature in frustrated lattice and other systems)
Mousumi Das (IISER Kolkata) (TBA)
Lunch Break + Poster Session
Satrajit Adhikari (IACS) (Role of Electron-Nuclear Coupling on Photoelectron Spectra, Reactive Scattering Processes and Phase Transition of Solids)
Atindra Nath Pal (SNBNCBS) (Emergent electronic and magnetic phases in quasi-2D vdW ferromagnet)
Kamaraju Natarajan (IISER Kolkata) (TDS THz investigation of anti-ferromagnetic topological insulator, MnBi ₂ Te ₄)
Ashwani Kumar Tiwari (IISER Kolkata) (TBA)
Closing remarks

Tea

Wednesday, 27 December 2023

17.15 - 17.30