

Schedule for **Focussed Meeting on Quantum Materials**

Date : January 24th, 2023

Venue : Silver Jubilee Hall, S.N. Bose centre

Time	Speaker	Title of Talk
Chair: Prabhat Mandal, S.N. Bose centre		
9:30 – 10:00	J. G. Park, Seoul National University	van der Waals magnets- new 2-dimensional quantum materials
10:00-10:30	Tanusri Saha Dasgupta, S.N. Bose centre	Pressure-Tuned Valence transition and Insulator-metal transition in van der Waals Antiferromagnet CrPS3
10:30 – 10:50	Tea break	
Chair: Manoranjan Kumar, S.N. Bose centre		
10:50-11:20	Bhavtosh Bansal, IISER Kolkata	Spinodal criticality at the abrupt Mott transition in some transition metal oxides
11:20-11:50	Ashis Nandy, NISER	Magnetic octupoles & the associated topological phases in noncollinear antiferromagnets
11:50 – 12:20	Subhadeep Dutta, IACS	Spin-Phonon Coupling in Layered Antiferromagnet and Related Heterostructures
12:20 - 12:50	Atindra Nath Pal, S.N. Bose centre	Unusual Hall effect and magnetoresistance in a 2D van der Waal magnet
12:50 – 2:30	Lunch + Poster (at Basundhara dining hall)	
Chair: Bheema Lingam Chittari, IISER Kolkata		
2:30 – 3:00	Subham Majumdar, IACS	Non-Fermi Liquid Behaviour in Ir-pyrochlores
3:00 – 3:30	T. Setti, S.N. Bose centre	Electronic Properties of Some Topological Systems
3:30 - 4:00	Nitesh Kumar, S.N. Bose centre	Anomalous transport in layered topological ferromagnets
4:00 – 4:20	Tea break	
Chair: Avijit Chowdhury, S.N. Bose centre		
4:20 –	Saqib Shamim, S.N. Bose centre	Emergent quantum Hall effects

4:50		below 50 mT in a two-dimensional topological insulator
4:50 – 5:20	Samik Duttagupta, SINP	Samik Duttagupta, SINP