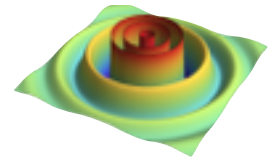


# Conference on Quantum Disordered Systems



March 1 - 3, 2016

Venue: Ramanujan Auditorium, IMSc

Tuesday, March 1st	
8.45 a.m. - 9 a.m.	Opening Remarks
9 a.m. - 9.45 a.m.	<b>Subroto Mukerjee, IISc</b> Many-body localization in the presence of a single particle mobility edge
9.45 a.m. - 10.30 a.m.	<b>Arul Lakshminarayanan, IITM</b> Local entanglement structure across a many body localization transition
10.30 a.m. - 11 a.m.	Coffee break + registration
11 a.m. - 11.45 p.m.	<b>Krishnendu Sengupta, IACS</b> Dynamics of entanglement generation in periodically driven closed integrable quantum systems
11.45 a.m. - 12.30 p.m.	<b>Amit Dutta, IIT Kanpur</b> Periodically driven closed quantum systems: periodic steady state and dynamical localization
12.30 p.m. - 1.30 p.m.	Lunch
1.30 p.m. - 2.15 p.m.	<b>Surjeet Singh, IISER Pune</b> Disorder in antiferromagnetic spin $\frac{1}{2}$ chains
2.15 p.m. - 3 p.m.	<b>R. Nirmala, IITM</b> Glasslike ground state in the spinel oxide $\text{CuAl}_2\text{O}_4$
3 p.m. - 3.30 p.m.	Coffee break
3.30 p.m. - 4.15 p.m.	<b>Arnab Sen, IACS</b> A topological spin glass in diluted spin ice
4.15 p.m. - 5 p.m.	<b>Thomas Vojta, Missouri Institute of Science and Technology</b> How random is topological disorder? Phase transitions and localization on random lattices
5 p.m. - 5.30 p.m.	High tea
5.30 p.m. - 6.30 p.m.	<i>Colloquium:</i> <b>Prof. T. V. Ramakrishnan, BHU/IISc</b> Electron localization: some meanderings

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## Wednesday, March 2nd

9 a.m. - 9.45 a.m.	<b>Ferdinand Evers, Universität Regensburg</b> Density of states divergency and mesoscopic orbital magnetism in functionalized graphene
9.45 a.m. - 10.30 a.m.	<b>Arti Garg, SINP</b> Nature of Single Particle States in disordered graphene
10.30 a.m. - 11 a.m.	Coffee break
11 a.m. - 11.45 p.m.	<b>Kedar Damle, TIFR</b> Impurity induced low energy states in undoped graphene
11.45 a.m. - 12.30 p.m.	<b>N S Vidhyadhiraja, JNCASR</b> Quantum critical Mott transitions in a bilayer Kondo insulator-metal model system
12.30 p.m. - 1.30 p.m.	Lunch
1.30 p.m. - 2.15 p.m.	<b>Pratap Raychaudhuri, TIFR</b> Disordered Superconductors: A TIFR Story
2.15 p.m. - 3 p.m.	<b>Satyajit Banerjee, IIT Kanpur</b> Evidence of magnetic and superconducting fluctuations above and below $T_c$ in doped Iron Arsenide superconductor
3 p.m. - 3.30 p.m.	Coffee break
3.30 p.m. - 4.15 p.m.	<b>Amit Ghosal, IISER Kolkata</b> Disorder induced inhomogeneities in cuprate superconductors
4.15 p.m. - 5 p.m.	<b>Sudhansu Mandal, IIT Kharagpur</b> Toward a minimal model for strongly disordered superconductors
6.30 p.m.	Conference dinner

Thursday, March 3rd	
9 a.m. - 9.45 a.m.	<b>Uma Divarakan, CBS</b> Non-equilibrium quantum relaxation across a localization-delocalization transition
9.45 a.m. - 10.30 a.m.	<b>Siddharth Parameswaran, UC Irvine</b> Quantum Order and Criticality at Infinite Temperature
10.30 a.m. - 11 a.m.	Coffee break
11 a.m. - 11.45 p.m.	<b>Yogesh Singh, IISER Mohali</b> Quest for the Kitaev-Heisenberg model in honeycomb lattice Iridates $A_2IrO_3$ (A = Na, Li)
11.45 a.m. - 12.30 p.m.	<b>Mukul S. Laad, IMSc</b> Emergent Quantum Coherence from Instabilities of a Fractionalized Spin Liquid
12.30 p.m. - 1.30 p.m.	Lunch
1.30 p.m. - 2.15 p.m.	<b>Vikram Tripathi, TIFR</b> Magnetic field-dependent inhomogeneities and their effect on the magnetoresponse of 2D superconductors
2.15 p.m. - 3 p.m.	<b>Prosenjit Haldar, IMSc</b> Novel quantum critical transport in a continuous metal-insulator transition
3 p.m. - 3.30 p.m.	Coffee break
3.30 p.m. - 4.15 p.m.	<b>Pinaki Majumdar, HRI</b> The pyrochlore Mott transition: spontaneous 'disorder' in a clean system
4.15 p.m. - 5 p.m.	<b>Rajdeep Sensarma, TIFR</b> Ionic Hubbard Model: competition between interaction and potential inhomogeneity
5 p.m. - 5.15 p.m.	Closing Remarks