

Chair	Session 1 (L2-103)
Time	Speaker
9:00–10:00	Inaugural function <i>followed by High Tea</i>
10:00–10:45	<b>D. D. Sarma (IISc)</b> <i>“In search of Quantum Spin Liquids”</i>
10:45–11:30	<b>G. Baskaran (IMSc)</b> <i>“Emergent Glassy Quantum Matter in Disorder free Quantum Spin Liquids”</i>

*Tea Break (11:30-11:45)*

Chair	Session 2- Parallel-I (L2-103)
Time	Speaker
11:45–12:15	<b>Arindam Ghosh (IISc)</b> <i>“Thermoelectricity to probe for new phases in twisted bilayer”</i> graphene
12:15–12:45	<b>Saikat Ghosh (IIT Kanpur)</b> <i>“Tunable Classical Discrete Time Crystals”</i>
12:45–13:00	<b>Jyoti Krishna (CSIC-UPV/EHU, San-Sebastian, Spain)</b> <i>“Non-linear optical response of TMD Nanotubes using Wannier interpolation”</i>

Chair	Session 2- Parallel-II (L2-104)
Time	Speaker
11:45–12:15	<b>Subhankar Bedanta (NISER)</b> <i>“Study of Domain wall dynamics and interfacial Dzyaloshinskii-Moriya interaction in HM/FM multilayer thin film”</i>
12:15–12:45	<b>Suvankar Chakraverty (INST Mohali)</b> <i>“KTaO<sub>3</sub>—The New Kid on the Spintronics Block”</i>
12:45–13:00	<b>Vivek Kumar (IISER Bhopal)</b> <i>“Rashba-like spin-orbit interaction and spin texture at KTaO<sub>3</sub> from DFT calculations”</i>

*Lunch Break (13:00-14:30)*

Chair	Session 3- Parallel-I (L2-103)
Time	Speaker
14:30–15:00	<b>Manuel Bibes (CNRS, Paris)</b> <i>“Ferroelectric and multiferroic two-dimensional electron gases”</i>
15:00–15:30	<b>Tamalika Banerjee (Groningen)</b> <i>“Electronic transport as a probe of magnetic ordering in complex”</i>
15:30–15:45	<b>Sayantika Bhowal (ETH Zurich)</b> <i>“Hidden real-space and reciprocal-space magnetoelectric multipoles and their detection using Compton scattering”</i>
15:45-16:00	<b>Abhishek Nag (Paul Scherrer Institut)</b> <i>“Quadrupolar magnetic excitations in an isotropic spin-1 antiferromagnet”</i>

Chair	Session 3- Parallel-II (L2-104)
Time	Speaker
14:30–15:00	<b>Pratap Raychaudhuri (TIFR Mumbai)</b> <i>“Spectroscopic evidence of Bose Metal in Ultrathin MoGe thin film”</i>
15:00–15:30	<b>Peayush K. Chaubey (IIT Roorkee)</b> TBA
15:30–15:45	<b>Tuhin K. Maji (IISc)</b> <i>“Electrical Resistance in All-metallic Cluster of Ultra-small Silver Nanoparticles Embedded in Gold”</i>
15:45-16:00	<b>Gourav Vaid (IISER TVM)</b> <i>“Unity of universal parameter (alpha) in an overdoped single crystal of high temperature superconductor Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O<sub>8+x</sub>”</i>

*Tea & Poster Session  
(16:00-18:00)*

Chair	Special Evening Session (L2-103)
Time	Speaker
18:00–19:00	<b>Elbio Dagotto (ORNL/University of Tennessee)</b> <i>“Surprises at intermediate coupling in electronic correlated systems: spirals, Majoranas, and pairing”</i>
19:00–20:00	<b>Anthony J. Leggett (University of Illinois,Urbana-Champaign)</b> <i>“What can we do with a quantum liquid?”</i>

Conference Dinner (20:00 onwards)

Day 2: October 13, 2022

Chair	Session 1 (L2-103)
Time	Speaker
9:00–09:45	<b>R. Ramesh (Rice University, USA)</b> <i>“Ultra-Low-Voltage, Beyond CMOS Microelectronics”</i>
09:45–10:30	<b>E. V. Sampathkumaran (TIFR Mumbai)</b> <i>“Magnetic-field induced melting of long-range magnetic order in Tb<sub>5</sub>Si<sub>3</sub> and its implications”</i>
10:30–11:15	<b>S. M. Yusuf (BARC)</b> <i>“Search for Quantum Magnetism in Low–Dimensional Spin Systems”</i>

Tea Break (11:15-11:45)

Chair	Session 2 - I (Parallel) (L2-103)
Time	Speaker
11:45–12:15	<b>Brijesh Kumar (JNU)</b> <i>“Theory of Quantum Oscillations in Kondo Insulating Bulk”</i>
12:15–12:45	<b>Saurabh Basu (IIT Guwahati)</b> <i>“Higher Order Topology in a Ladder”</i>
12:45–13:15	<b>Sumiran Pujari (IIT Bombay)</b> <i>“Punctured-Chern topological invariants for semi-metallic bandstructures”</i>

Chair	Session 2 - II (Parallel) (L2-104)
Time	Speaker
11:45–12:15	<b>Surendra Singh (BARC)</b> <i>“Interface Magnetization in Oxide Heterostructures”</i>
12:15–12:45	<b>Debakanta Samal (IOP Bhubaneswar)</b> <i>“Topological Electron Transport Due To Quenched Magnetic Impurity Scattering By Antiferromagnetic Proximity in SrCuO<sub>2</sub>/SrIrO<sub>3</sub>”</i>
12:45–13:15	<b>Saikat Das (IIT Kharagpur)</b> <i>“Observation of giant room temperature spin-orbit torque in permalloy-ferroelectric Bi<sub>2</sub>WO<sub>6</sub> heterostructures”</i>

Lunch Break (13:15-14:30)

Dinner (19:30-22:00)

Venue: APJ Abdul Kalam Block

Chair	Session 3- Parallel-I (L2-103)
Time	Speaker
14:30–15:00	<b>P. K. Muduli (IIT Delhi)</b> <i>“Large spin Hall conductivity in a quantum material”</i>
15:00–15:30	<b>Kaushik Parida (IIT Roorkee)</b> <i>“Mechanical soft and high piezoelectric behaviour in organic-inorganic hybrid ferroelectrics via molecular bond weakening”</i>
15:30–15:45	<b>Anamika Kumari (INST Mohali)</b> <i>“A scheme to determine the carrier density distribution, potential profile, and subband quantization of a conducting interface LaVO<sub>3</sub>/SrTiO<sub>3</sub>”</i>
15:45-16:00	<b>Showkat Hassan (HRI)</b> <i>“Pressure-induced bandgap narrowing in Cs<sub>2</sub>AgPdCl<sub>5</sub> lead-free halide”</i>

Chair	Session 3- Parallel-II (L2-104)
Time	Speaker
14:30–15:00	<b>C. S. Yadav (IIT Mandi)</b> <i>“Shubnikov de-Haas Oscillations and ARPES Study in Transition Metal Doped Topological Insulators”</i>
15:00–15:30	<b>Kaushik Sen (IIT Delhi)</b> <i>“Quasiparticle dynamics in a ferromagnetic nodal-line semimetal”</i>
15:30–16:00	<b>Kaustubh Priolkar (Goa University)</b> <i>“Understanding Glassy State in Martensites”</i>

Tea & Poster Session  
(16:00-18:00)



Day 3: October 14, 2022

Chair	Session 1 (L2-103)
Time	Speaker
9:00–09:45	<b>T. V. Ramakrishnan (IISc)</b> <i>“Linear Resistivity in Metals”</i>
09:45–10:30	<b>Arghya Taraphder (IIT Kharagpur)</b> <i>“The enigmatic transition metal dichalcogenides”</i>
10:30–11:15	<b>Kalobraban Maiti (TIFR Mumbai)</b> <i>“Electron spectroscopy for the physics of quantum materials”</i>

*Tea Break (11:15-11:30)*

Chair	Session 2 - I (Parallel) (L2-103)
Time	Speaker
11:30–12:00	<b>Anil Jain (BARC)</b> <i>“Spin Correlations in Low Dimensional Quantum Magnets”</i>
12:00–12:30	<b>Suhas Gangadharaiah (IISER Bhopal)</b> <i>“Driven quantum spin chain in the presence of noise”</i>
12:30–13:00	<b>Deepshikha Jaiswal-Nagar (IISER TVM)</b> <i>“Experimental realization of multipartite entanglement in a uniform antiferromagnetic quantum spin chain ”</i>
13:00-13:15	<b>Abhisek Mishra (NISER)</b> <i>“Spin pumping and inverse spin Hall effect in sputtered MoS2/CoFeB bilayers”</i>
13:15-13:30	<b>Kiran Singh (NIT Jalandhar)</b> <i>“Structural correlations in magnetoelectric property of Co4Nb2O9”</i>

*Lunch Break (13:30-15:00)*

Venue: APJ Abdul Kalam Block

Chair	Session 2 - II (Parallel) (L2-104)
Time	Speaker
11:30–12:00	<b>Siddhartha Lal (IISER Kolkata)</b> <i>“Revisiting the impurity Metal-Insulator transition at the heart of DMFT: what lies behind the veil of self-consistency?”</i>
12:00-12:30	<b>N. S. Vidhyadhiraja (JNCASR)</b> <i>“Steady-state dc transport through an Anderson impurity coupled to leads with spin-orbit coupling”</i>
12:30-12:45	<b>Vinod Asokan (NIT Jalandhar)</b> <i>“Correlation effects in quasi-one-dimensional electron quantum wire”</i>
12:45-13:00	<b>Ravi Kiran (IIT Kharagpur)</b> <i>“Investigation of electronic and optical properties in ReS2”</i>
13:00–13:15	<b>K. R. Abidi (University of Jyväskylä)</b> <i>“Electronic structure and elasticity of two-dimensional metals of group 10: A DFT study”</i>

*Tea & Poster Session  
(15:00-17:00)*

	Session 3 (L2-103)
Time	
17:00–17:30	<i>Valedictory Function</i>

*Dinner (19:30-21:30)*