

Physics Research Workshop Schedule

6Th-7Th February, Venue: L 16

DAY 1: 6th February (Saturday)

9:00 - 9:30	Registration
9:30 - 9:45	Inaugration

Condensed Matter Theory: Electronic Structure Calculations

Chair: Sushil Auluck

9:45 - 10:30	Opening Keynote Address by Arun Bansil : Exploration of Quantum Matter: from Schroedinger to Dirac/Einstein
10:30 - 11:00	Tea Break
11:00 - 11:30	Manoj K. Harbola : Study of adiabatic-connection in ground-state density functional theory.
11:30 - 12:00	D. V. L. K. Prasad: Electronic structure and lattice dynamics of compressed low-Z molecular solids.
12:00 - 14:00	Lunch Break and Poster

Complex System and Dynamics

Chair: Y. N. Mohapatra

14:00 - 14:30	Mahendra K. Verma : Free Turbulence, Walled Turbulence and Universal Theories
14:30 - 15:00	Satyajit Banerjee : Evidence of interplay between magnetic and superconducting fluctuations above Tc in doped Iron Arsenide Superconductor
15:00 - 15:20	Shraddha Sharma : Dynamical Phase Transitions: non-equilibrium real time quantum phase transitions.
15:20 - 15:50	Tea Break

Optics and Plasma Physics

Chair: G. Ravindra Kumar

15:50 - 16:20	Sudeep Bhattacharjee : Pulse modulated wave induced plasma states and self excited instability.
16:20 - 16:50	Saikat Ghosh: Interplay of classical and quantum dynamics in a thermal ensemble of Rubidium atoms.
16:50 - 17:10	Pramod K. Pandey : Laser produced air plasma waveguide using pico-sec and nano-sec pulses

17:10 - 17:30

Sriram Guddala: Linear and non-linear optical properties of meta material perfect optical absorbers.

17:30 - 18:30

Tea and Poster Session

DAY 2: 7th February (Sunday)

	Quantum Condensed Matter Systems Chair: Debashish Chowdhury
10:00 - 10:30	Mandar Deshmukh : Spin and valley resolved Landau level crossing in tri-layer ABA stacked graphene - signatures of quantum phase transitions.
10:30 - 11:00	Satyabrata Patnaik: Emergent Properties of Chalcogenide Superconductors
11:00 - 11:30	Tea Break
11:30 - 11:50	Gyanendra S. Singh : Two dimensional superconductivity in LaAlO3/SrTiO3 interfaces.
11:50 - 12:10	Dushyant Kumar : Room Temperature Multi-color Emission from Ar*-irradiated SrTiO3.
12:10 - 12:30	Sourav Biswas : Random telegraphic signal due to thermal bi-stability in superconducting weak link.
12:30 - 14:30	Lunch and Poster Session

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Chair: Pankaj Jain

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14:30 - 15:00	Joydeep Chakrabortty: Cousin of Higgs		
15:00 - 15:20	Suratna Das: Particle physics potentials in inflationary cosmology		
15:20 - 15:40	Sudhakar Upadhyay: Generalization of BRST symmetry		
15:40	Concluding session: Announcement of Best Poster Awards Vote of Thanks		
	Concluding Tea		