

RECENT TRENDS IN CONDENSED MATTER PHYSICS 2020

SCHOOL OF PHYSICAL SCIENCES,
INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE
DATE: 2ND AND 3RD MARCH, 2020 VENUE: CV RAMAN HALL, IACS

PROGRAM SCHEDULE

MARCH 2, MONDAY

10:30 – 11:15	REGISTRATION AND TEA	
11:15 – 11:30	INAUGURATION AND WELCOME ADDRESS BY PROF. SANTANU BHATTACHARYA, DIRECTOR, IACS AND PROF. KRISHNENDU SENGUPTA, CHAIR, SCHOOL OF PHYSICAL SCIENCES, IACS	
SESSION 1: CHAIRMAN: PROF. INDRA DASGUPTA (IACS, KOLKATA)		
11:30 – 12:00	PROF. PABITRA KUMAR CHAKRABARTI (BURDWAN UNIVERSITY)	Some aspects on magnetoelectric multiferroics
12:00 – 12:30	PROF. JURAJ BUJDAK (COMENIUS UNIVERSITY)	Resonance energy transfer in systems of layered nanoparticles and organic dyes
12:30 – 12:45	MS. SUBHASHREE CHATTERJEE (IACS, KOLKATA)	Effect of strain engineering on the multiferroic properties of thin film heterostructures
13.00 – 14.30	LUNCH BREAK	
SESSION 2: CHAIRMAN: PROF. ASWINI GHOSH (IACS, KOLKATA)		
14:30 – 15:00	PROF. PRABHAT MANDAL (SINP, KOLKATA)	Can magnetic field induce charge density wave transition?
15:00 – 15:15	MS. ASMI HALDAR (IACS, KOLKATA)	Ergodicity, Emergent Conservation and Onset of Thermalization in Interacting Quantum Systems Under Periodic Drive
15.15 – 15.30	MR. BIKAS DAS (IACS, KOLKATA)	Probing van der Waals heterostructure with conductive AFM
15.30 – 16.00	TEA BREAK	
SESSION 3: CHAIRMAN: PROF. AMLAN J. PAL (IACS, KOLKATA)		
16:00 – 16:30	PROF. CHIRANJIB MITRA (IISER, KOLKATA)	Surface Enhanced Topological Transport in Topological Insulators
16:30 – 16:45	MR. ABHISHEK MAITI (IACS, KOLKATA)	Rashba Splitting through Spin-Polarized Scanning Tunneling Spectroscopy
16:45 – 17.00	MR. JAYJIT KUMAR DEY (IACS, KOLKATA)	Does Verwey-type transition exist in NiFe_2O_4 ?

MARCH 3, TUESDAY

SESSION 4: CHAIRMAN: PROF. DURGA BASAK (IACS, KOLKATA)		
10:30 – 11:00	PROF. ANIRBAN BHATTACHARYA (UNIVERSITY OF CALCUTTA)	Ultraviolet emitters and detectors grown by Molecular Beam Epitaxy
11:00 – 11:30	DR. PETER BOHAC (SLOVAK ACADEMY OF SCIENCES)	Photo-physical properties of hybrid systems based on layered silicates and cyanine dyes.
11:30 – 11:45	MS. MANJIL DAS (IACS, KOLKATA)	Ferrimagnetism in 4d transition metal based double perovskites: from negative magnetization to inverse exchange bias
11.45 – 12.15	TEA BREAK	
SESSION 5: CHAIRMAN: PROF. SUBHAM MAJUMDAR (IACS, KOLKATA)		
12:15 – 12:45	PROF. AJAYA KUMAR NAYAK (NISER, BHUBANESWAR)	Topological non-trivial chiral spin textures in D_{2d} symmetry materials and frustrated magnets
12.45 – 13.00	MS. ATASI CHAKRABORTY (IACS, KOLKATA)	Modelling delafossite systems: Heisenberg to Kitaev
13:00 – 13:15	MR. ARNAB BERA (IACS, KOLKATA)	Structural phase transition of layered Weyl semimetal, MoTe_2
13.15 – 13.30	CONCLUDING REMARKS	
13.30 – 15.00	LUNCH FOLLOWED BY DEPARTURE	