

NCES-2018, 17-19th December, SRMIST, Kattankulathur.
Registration: 8:00 am -9:00 am; Venue: Mini Hall II, TP Ganesan Auditorium

17 th December	18 th December	19 th December
Inauguration (9:00-9:30)	Session Chair: Ravi Shankar Singh , IL-12 (09:00-09:40), TanusriSahaDasgupta, Hybridization-switching induced Mott transition in ABO ₃ perovskites	Session Chair: BinduRadhamani , IL-21 (09:00-09:40), Anjan K. Gupta, An STM/S study of electronic inhomogeneities in graphene due to interface-defects
Session Chair: Krishnakumar S. R. Menon , IL-01 (9:30-10:20) E.V. Sampathkumaran, Geometrically frustrated magnetism in kagome lattices, R3Ru ₄ Al ₁₂ ,	IL-13 (09:40-10:20), Amrita Bhattacharya, Unraveling the exciting charge and heat transport phenomena in thermoelectric compounds	IL-22 (09:40-10:20), KaustubhR. S.Priolkar, Phase separation and modulated structure in Ni-Mn Magnetic shape memory alloys
IL-02 (10:20-11:00), KalobaranMaiti, Orbital selective behavior in Fe-based superconductors	IL-14 (10:20-11:00), Manoj K Harbola, Some studies in fundamentals of density functional theory	IL-23 (10:20-11:00), Somnath Jana, Element Specific Ultrafast Magnetization Dynamics using a table top High Harmonic X-ray source
Tea Break (11:00-11:20)	Tea Break (11:00-11:20)	Tea Break (11:00-11:20)
Session Chair: KalobaranMaiti , IL-03 (11:20-12:00), Swapnil Patil, Magneto-transport and ARPES studies of few doped topological insulators	Session Chair: TanusriSahaDasgupta , IL-15 (11:20-12:00), G NarahariShastry, Metal Cation Interaction With Small Molecules	(11:20-1:00) Award distribution & Panel Discussion on NCES (by National Conveners)
IL-04 (12:00-12:40), Pramita Mishra, Persistent interfacial high-T _c superconductivity in multi-layer FeSe/SrTiO ₃ films	IL-16 (12:00-12:40), Jaivardhan Sinha, Spin-Orbit Coupling Induced Effects in Ferromagnetic Thin film Heterostructures	
IL-05 (12:40-13:20), SudakarChandran, Oxygen vacancy defect tailored multifunctional properties of bismuth ferrite	IL-17 (12:40-13:20), Saurabh Ghosh, First-principles Design of Polar Metals	
Lunch (13:20-14:30)	Lunch (13:20-14:30)	Lunch (13:00-14:00)
Session Chair: Biju Raja Sekhar , IL-06 (14:30-15:10), Debraj Choudhury, Coupled Orbital-ordering, Magnetism and Lattice Chirality in MnTi ₂ O ₄	Session Chair: S. K. Panda , IL-18 (14:30-15:10), B. R. K. Nanda, Electronic Structure of Halide and Oxide Perovskites: Band Insulators to Topological Insulators	Dakshinachitra Tour http://www.dakshinachitra.net/
IL-07 (15:10-15:50), RanjitThapa, Discuss on the journey to define new electronic and structural descriptor	IL-19 (15:10-15:50), Goutam Sheet, Generation of a pseudo-magnetic field in a doped Weyl semimetal with intrinsic strain	
IL-08 (15:50-16:30), Prasenjit Sen, Designing permanent magnets without rare earths: Insights from atomic clusters	IL-20 (15:50-16:30), ThirupathaiahSetti, Electronic structure studies of Weyl and Dirac semimetals using anglesolved photoelectron spectroscopy	
Tea Break (16:30-16:40)	POSTER +Tea Break (16:30-19:00), National Conveners and expert panel will select the best posters for:	
Session Chair:RanjitThapa , IL-09 (16:40-17:20), S. K. Panda, Electronic structure of NiO: A DFT+DMFT perspective and beyond	1. C.V. Raman Prize (Innovation in experiment) 2. S.N. Bose Prize (Innovation in theory) 3. J.C. Bose Prize (Innovation in method)	
IL-10 (17:20-18:00), PrasenjitGhosh, Descriptors for predicting efficient dye-sensitized semiconductor photocatalysts for Hydrogen Evolution Reaction		
IL-11 (18:00-18:40), G. P. Das, Electronic and transport properties of graphene nanoribbon based prototype devices: first-principles study		
Dinner	Banquet Dinner	