

Workshop on Frontier Areas in Condensed Matter and Statistical Physics

Department of Physical Sciences, IISER Kolkata

23-24 February, 2018

Program Schedule

DAY 1 (23rd February)

Inaugural Speech		10 AM – 10:15 AM
Name of the Speaker	Time	Title of the talk
Arghya Taraphder IIT KGP	10:15 AM – 11 AM	Revisiting metamagnetism in correlated electrons
Anirban Mukherjee IISER Kolkata	11 AM – 11:15 AM	Scaling Theory for Mott-Hubbard Transition
Swati Sen IISER Kolkata	11:15 AM – 11:30 AM	Swelling Kinetics of Polyelectrolyte (PE) Gels around the Critical Point
TEA BREAK 11:30 AM – 12 PM		
Pinaki Majumdar HRI Allahabad	12 PM – 12:45 PM	Superconductivity near an antiferromagnetic Mott insulator
Surajit Sengupta TIFR Hyderabad	12:45 PM – 1:30 PM	Assembling colloidal crystals using laser templates
LUNCH + POSTER 1:30 PM – 3:30 PM		
Sourav Pal IISER Kolkata	3:30 PM – 4:15 PM	Atomic clusters as functional materials: Density functional theoretic study
Sudhansu S. Mandal IIT KGP	4:15 PM – 5 PM	Jastrow-Form of the Ground-State Wave Functions for All Fractional Quantum Hall States
HIGH TEA		

DAY 2 (24th February)

Name of the Speaker	Time	Title of the talk
G. Baskaran IMSc Chennai	10 AM – 10:45 AM	There is Room for Room Temperature Superconductivity
J. K. Bhattacharjee IACS Kolkata	10:45 AM – 11:30 AM	Statistical Mechanics and Fully Developed Turbulence
TEA BREAK 11:30 AM – 12 PM		
Anurag Banerjee IISER Kolkata	12 PM – 12:15PM	Charge Density Wave and s-wave Superconductivity in Disordered Systems
Sayak Ray IISER Kolkata	12:15 PM – 12:30 PM	Fate of Many Body Localization under Periodic Drive
M. S. Laad IMSc Chennai	12:30 PM – 1:15 PM	Superconductivity in the Iron Age : A View From LDA+DMFT Studies
Concluding Remarks + Vote of thanks		
LUNCH + POSTER 1:30 PM		