

Schedule of the 3rd Indian Statistical Physics Community Meeting 12 – 14 February 2016, ICTS, Bangalore.

Date	Time	Name	Title
Session I		Chair: Meher Prakash	
12 Feb	9:00 – 9:15	Pradeep Kumar Mohanty	Continuously Varying Critical Exponents Beyond Weak Universality
12 Feb	9:15 – 9:30	Ramandeep S. Johal	Universality of efficiency at maximum work with finite reservoirs
12 Feb	9:30 – 9:45	Sujit Sarkar	Quantum Simulation of Majorana Fermion Mode , Dirac Fermion Mode and Weyl Fermion Mode
12 Feb	9:45 – 10:00	Abhishek Dhar	Open quantum systems: a comparison between Redfield and Lindblad master equations.
12 Feb	10:00 – 10:15	Anupam Kundu	Correlations and fluctuations in RAP with a driven tracer
12 Feb	10:15 – 10:30	Mustansir Barma	Fluctuation-dominated Phase Ordering: Order Parameter Scaling
12 Feb	10:30 – 11:00		Tea break
12 Feb	11:00 – 11:45		Poster Flash Talks
12 Feb	11:45 – 12:00		Short break
Session II		Chair: Ranjini Bandyopadhyay	
12 Feb	12:00 – 12:15	Biswaroop Mukherjee	Microscopic Origin of Temporal Heterogeneities in Translational Dynamics of Liquid Water
12 Feb	12:15 – 12:30	Jaydeb Chakrabarti	Analytical form of forces in hydrophobic collapse
12 Feb	12:30 – 12:45	Prabal K Maiti	Molecular mechanism of water permeation in a helium impermeable graphene and graphene oxide membrane
12 Feb	12:45 – 13:00	Rajesh Ravindran	Extended-collapsed transition in charged polymers: Origin of attractive forces
12 Feb	13:00 – 13:15	Vani Vemparala	Effects of dissolved ions on spatial and temporal correlations of liquid water.
12 Feb	13:15 – 13:30	Yashodhan Hatwalne	Continuum "xy- model" on deformable surfaces: equilibrium of fluid interfaces, and elasticity of liquid crystals
12 Feb	13:30 – 15:30		Lunch + Poster session + Coffee
Session III		Chair: H. R. Krishnamurthy	
12 Feb	15:30 – 15:45	Satya Majumdar	
12 Feb	15:45 – 16:00	Arnab Das	Unusual Spatial Correlation in Quantum Quenches
12 Feb	16:00 – 16:15	Arnab Sen	Dynamics of entanglement generation in driven integrable systems
12 Feb	16:15 – 16:30	Kavita Jain	Critical dynamics of the jamming transition
12 Feb	16:30 – 16:45	M. S. Santhanam	Random walks and extreme events on networks
12 Feb	16:45 – 17:00	Deepak Dhar	Networks of agents with preferred degree
12 Feb	17:00 – 17:15	Soumen Roy	Using networks towards image processing and diagnostics

12 Feb	17:15 — 17:30	Ronojoy Adhikari	Spontaneous symmetry breaking in active matter : bifurcations in active filaments and crystallization of active colloids
12 Feb	17:30 — 17:45	Subir K. Das	Kinetics of Vapor-Solid Phase Transition
Session IV Chair: Pramod Pullarkat			
13 Feb	9:00 — 9:15	Mangal Chandra Mahato	Stochastic resonance and ratchet effect in sinusoidal potentials: Numerical and some experimental results
13 Feb	9:15 — 9:30	Punyabrata Pradhan	Symmetric exclusion processes on a ring with moving defects
13 Feb	9:30 — 9:45	Sanjib Sabhapandit	Dynamical transition in the temporal relaxation of stochastic processes under resetting
13 Feb	9:45 — 10:00	Apoorva Nagar	Diffusion with stochastic power-law resetting
13 Feb	10:00 — 11:30		Special LIGO announcement
Session V Chair: Dario Vincenzi			
13 Feb	11:30 — 11:45	Rahul Pandit	Explorations of the statistical properties of particles in turbulent flows
13 Feb	11:45 — 12:00	Samriddhi Sankar Ray	Intermittency in Turbulence: Time to look at Fourier space?
13 Feb	12:00 — 12:15	Sagar Chakraborty	Conservative perturbation theory for nonconservative systems
13 Feb	12:15 — 12:30	Sandeep Krishna	Mode-hopping in entrained biological oscillator
13 Feb	12:30 — 12:45	Chandan Dasgupta	Growing length scale in the short-time dynamics of glass-forming liquids
13 Feb	12:45 — 13:00	Pinaki Chaudhuri	Onset of flow in glasses under applied shear
13 Feb	13:00 — 13:15	Srikanth Sastry	Structure and Forces in Shear Jammed Sphere Packings
13 Feb	13:15 — 13:30	Amit Apte	Asymptotic properties of Kalman filter
13 Feb	13:30 — 13:45	Parthanil Roy	Branching random walks, stable point processes and regular variation
13 Feb	13:45 — 15:00		Lunch + Poster session + Coffee
Session VI Chair: Shashi Thutupalli			
13 Feb	15:00 — 15:15	Dibyendu Das	Is there a discontinuous transition underlying the growth and shrinkage of a microtubule?
13 Feb	15:15 — 15:30	Manoj Gopalakrishnan	Force generation by polymerizing filaments
13 Feb	15:30 — 15:45	Sakuntala Chatterjee	Actin filaments growing against a barrier with fluctuating shape
13 Feb	15:45 — 16:00	Vijaykumar Krishnamurthy	Scale Invariance in Biological Patterns
13 Feb	16:00 — 16:15	Sanjay Kumar	Periodically driven DNA: Theory and simulation
13 Feb	16:15 — 16:30		Short break
Session VII Chair: Prerna Sharma			
13 Feb	16:30 — 16:45	Arindam Ghosh	Anomalous conductance fluctuations in electrically stressed bilayer graphene
13 Feb	16:45 — 17:00	Sushanta Dattagupta	Generalized Fluctuation Theorem for Dissipative Cyclotron Motion - Classical and Quantal
13 Feb	17:00 — 17:15	Kedar Damle	Multicritical melting of three-sublattice order in frustrated easy-axis antiferromagnets on triangular and kagome lattices.

13 Feb	17:15 — 17:30	N. S. Vidhyadhiraja	Quantum critical Mott transitions in a bilayer Kondo insulator-metal model system
13 Feb	17:30 — 17:45	Subhro Bhattacharjee	Obtaining Quantum spin liquid by gauging Deconfined quantum criticality
13 Feb	17:45 — 18:00	Subroto Mukerjee	Boosted one dimensional superfluids
Session VIII		Chair: Pallab Basu	
14 Feb	9:00 — 9:15	Amit Dutta	Periodically driven closed quantum systems: periodic steady state
14 Feb	9:15 — 9:30	Dibyendu Roy	Separating many-body localized phase from Anderson localized phase using spin noise signals
14 Feb	9:30 — 9:45	Priya Mahadevan	Placing the dilute magnetic semiconductors on the Zaanen-Sawatzky-Allen phase diagram
14 Feb	9:45 — 10:00	Anandamohan Ghosh	Lyapunov Spectral Analysis of Coupled Oscillators
14 Feb	10:00 — 10:15	Shashi C. L. Srivastava	Interacting Chaotic Systems: Universality in Spectral-Fluctuation
14 Feb	10:15 — 10:30	Arul Lakshminarayan	Uncovering universality in the entanglement of strongly chaotic subsystems
14 Feb	10:30 — 10:45	Kushal Shah	Leaky Fermi Accelerators
14 Feb	10:45 — 11:00	Sudhir R. Jain	A finite-time exponent for the random Ehrenfest gas
14 Feb	11:00 — 11:45		High Tea
Session IX		Chair:	
14 Feb	11:45 — 12:00	Mithun Kumar Mitra	Transdifferentiation and oscillatory states in gene regulatory networks
14 Feb	12:00 — 12:15	Govardhan Reddy	Protein Collapse and Folding
14 Feb	12:15 — 12:30	Nivedita Deo	Counting RNA Structures
14 Feb	12:30 — 12:45	Rahul Marathe	Bacterial Twitching Motility in presence of obstacles.
14 Feb	12:45 — 13:00	Sudipto Muhuri	Catch bond mechanism in Dynein motor driven collective transport
14 Feb	13:00 — 13:15	Arvind Ayyer	Full Current Statistics for a Disordered Open Exclusion Process
14 Feb	13:15 —		Lunch