

**RECENT TOPICS IN STATISTICAL MECHANICS**

**10/12/2019, TUESDAY**

**WELCOME DINNER (8.00PM)**

**11/12/2019, WEDNESDAY**

TIME	NAME	AFFILIATION	TITLE
<b>INAUGURATION (9.30 AM – 10.00AM)</b>			
<b>Session Chair: Deepak Dhar (IISER Pune)</b>			
10.00 -10.50 AM	Abhishek Dhar	ICTS Bangalore	Hydrodynamic description of one-dimensional Hamiltonian systems.
<b>TEA BREAK (10.50 AM-11.15 AM)</b>			
<b>Session Chair: Shankar Ghosh (TIFR Mumbai)</b>			
11.15 -11.45 AM	Rama Govindaranjan	ICTS Bangalore	Chaotic orbits of ellipsoids in fluid
11.45 -12.15 PM	Shamik Gupta	RKMVERI Kolkata	Martingale theory for housekeeping heat
12.15 – 12.45 PM	Mustansir Barma	TIFR,Hyderabad	Interface growth driven by a single active particle
12.45 – 1.00 PM	Sarika Maitra Bhattacharyya	CSIR-NCL	The elusive connection between structure and dynamics in the supercooled liquids
<b>LUNCH BREAK (1.00 PM-2.30PM)</b>			
<b>Session Chair: Chandan Dasgupta (IISC &amp; ICTS Bangalore)</b>			
2.30 – 3.20 PM	Sriram Ramaswamy	IISC Bangalore	TBA
3.20 – 3.50 PM	Deepak Dhar	IISER,Pune	Improved Upper Bounds on the Asymptotic Growth Velocity of Eden Clusters
3.50 – 4.05 PM	Mukta Tripathi	IIT,Bombay	Role of architecture and topology in the scaling behaviour of sparsely-grafted nanoparticles
4.05 – 4.20 PM	Jalim Singh	NISER Bhubaneswar	Phase separation in a 2D binary colloidal mixture by quorum sensing activity
<b>TEA BREAK(4.20 PM-4.45PM)</b>			
<b>Session Chair: Surajit Sengupta (TIFR Hyderabad)</b>			
4.45 – 5.15 PM	Abhik Basu	SINP Kolkata	Asymmetric exclusion processes on an inhomogeneous ring
5.15 – 5.45 PM	Dilip K Sathpathy	IIT Madras	Two-dimensional evaporative self-assembly of soft colloids at interfaces.
5.45 – 6.00 PM	Rahul Singh	ICTS Bangalore	Elasto-inertial Chains in a Two-dimensional Turbulent Flow
6.00 – 6.15 PM	Ashok Kumar Dasmahapatra	IIT Guwahati	Crystallization of Binary Polymer Blends Studied by Dynamic Monte Carlo Simulation
6.15 – 6.30 PM	Samvit Mahapatra	TIFR, Hyderabad	Early time dynamics in the Light-Heavy Model
<b>DINNER (7.30 PM)</b>			

**12/12/2019, THURSDAY**

**TRIP TO MANGALAJODI  
(Bird sanctuary) 5.00 AM-9.00AM**

**Session Chair: Manoj Gopalakrishnan (IIT Madras)**

10.30 – 11.20 AM	Chandan Dasgupta	IISC & ICTS Bangalore	Active matter at high densities
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**TEA BREAK (11.20 AM-11.45 AM)**

**Session Chair: Abhishek Dhar (ICTS Bangalore)**

11.45 – 12.15 PM	Sanjay Puri	JNU Delhi	Domain Growth in Disordered Systems
12.15 – 12.45 PM	R. Rajesh	IMSc Chennai	Velocity distribution of driven granular gases
12.45 – 1.00 PM	Shiladitya Sengupta	IIT Roorkee	Far out of equilibrium dynamics of a glass-former

**LUNCH BREAK (1.00 PM-2.30 PM)**

**Session chair: Abhik Basu (SINP Kolkata)**

2.30 – 3.00 PM	Surajit Sengupta	TIFR,Hyderabad	How to train your atoms: creating order in colloids and bots by engineering displacement fluctuations
3.00 – 3.30 PM	Vijayakumar Chikkadi	IISER Pune	Visualising yielding of amorphous solids using colloidal suspensions
3.30 – 4.00 PM	Shankar Ghosh	TIFR Mumbai	Tuning of friction noise by accessing the rolling-sliding option
4.00 – 4.15 PM	Sadhana Singh	BHU, Varanasi	Kinetics of polymer tumbling in shear flow: a coarse-grained description
4.15 – 4.30 PM	Anki Reddy Katha	IIT Guwahati	Origin of the long-ranged attraction or repulsion between intruders in a confined granular medium

**POSTER PRESENTATION(4.30 PM – 6.30 PM)  
CONFERENCE BANQUET(7.30 PM)**

**13/12/2019, FRIDAY**

**Session Chair: Somendra M Bhattacharjee (Ashoka University)**

9:00– 9.30 AM	Shachi Gosavi	NCBS Bangalore	Vignettes in Protein Design
10:00-10:30 AM	Manoj Gopalakrishnan	IIT Madras	Anomalous diffusion of randomly migrating eukaryotic cells
10.30 – 10.45 AM	Snigdha Thakur	IISER Bhopal	Propulsion at small length scale: in pursuit of biomimetic synthetic motors
10:45 -11:00 AM	Naveen Singh	BITS Pilani	DNA in confined geometry

**TEA BREAK (11.00 AM – 11.30 AM)**

**Session Chair: Malay Bandopadhyay (IIT Bhubaneswar)**

11:00-11:30 AM	Somendra M Bhattacharjee	Ashoka University	Dynamical Quantum Phase Transitions: a few exact results
11.30 – 12.00 PM	Pinaki Chaudhuri	IMSC, Chennai	Yielding of amorphous solids:effect of pinning
12.00 – 12.15 PM	Preeti Sahoo	Syracuse University	Geometric signature of surface tension in 3D tissues
12.15 – 12.30 PM	Apramita Chand	NISER Bhubaneswar	Molecular dynamics simulation study of possible inhibitory effects of choline-based co-solutes on the aggregation tendencies of the toxic core of the Parkinson's causing protein, $\alpha$ -synuclein
12:30 – 12:45 PM	Sudip Mukherjee	Barasat Government College	On the Question of Ergodicity in Quantum Spin Glass Phase and its role in Quantum Annealing

**LUNCH BREAK(1.00 PM-2.30 PM)**

**Session Chair: Mustansir Barma (TIFR Hyderabad)**

2.30 – 2:45 PM	Dipankar Roy	IISc Bangalore	Improved Upper Bounds on the Asymptotic Growth Velocity of Eden Clusters
2:45– 3.00 PM	Debraj Das	RKMVERI Kolkata	Relaxation to equilibrium in models of classical spins with long-range interactions
3.00 – 3:15 PM	Tushar Kanti Bose	IACS,Kolkata	The dipolar spin-glass transition in three dimensions.

**CONCLUDING SESSION(3:15 PM-)**

**TEA BREAK(4:00 PM-4:30 PM)**

**Dinner(7:00 pm)**