

Statistical Mechanics of Complex, Glassy and Non-Equilibrium Systems

King's College London, 22 May - 23 May 2017
Strand Campus, Room K2.31, King's Building

Programme

Monday, May 22

10:00		Registration – Room K2.40
10:25		Welcome – Room K2.31 (Nash)
10:30	Adrian Baule (QMUL)	Shape universality classes in the random sequential adsorption of non-spherical particles
11:00	Juanpe Garrahan (Nott)	Developments on large deviations and trajectory ensembles
11:30		Coffee Break
12:00	Rob Jack (Bath)	Breaking detailed balance accelerates convergence of Markov chains to their steady states
12:30	Michael Wilkinson (OU)	Convergent Chaos
13:00		Lunch Break
14:00	Mike Moore (Manchester)	The Fractal Dimension of Interfaces in Edwards-Anderson and Long-range Ising Spin Glasses
14:30	Chiu Fan Lee (Imperial)	Universal coarsening kinetics and interface fluctuations in motility-induced phase separation
15:00		Coffee Break
15:30	Francesco Turci (Bristol)	Understanding phase transitions in trajectory space: theory and experiments on glass formers
15:50	Tom Oakes (Nott)	Dynamical large deviations of fully packed dimers
16:10	Pablo de Castro (KCL)	Phase separation dynamics in polydisperse colloids: a mean-field lattice-gas theory
16:30	Ricardo Gutiérrez (Nott)	Front propagation and bulk relaxation in the melting dynamics of a kinetically constrained model of stable glasses
17:00		Posters/Drinks – Room S5.20
18:30		Conference Dinner

Tuesday, May 23

9:30	Fabio Cunden (Bristol)	Free fermions and the classical compact groups
10:00	Paolo Barucca (Zurich)	Spectral partitioning in random regular blockmodels
10:30	Tim Rogers (Bath)	Faster and stronger stochastic oscillations induced by network interference
11:00		Coffee Break
11:30	Carl Dettmann (Bristol)	Isolation statistics in temporal spatial networks
12:00	Dmitry Savin (Brunel)	Transmission via a simple mode on a chaotic background
12:30	David Saad (Aston)	Optimising Spreading Processes
13:00		Lunch Break
14:00	Ido Tishby (HUJ)	The distribution of first hitting times and last hitting times of random walks on Erdős-Rényi networks
14:30	Juan Pablo Neirotti (Aston)	Consensus formation times in anisotropic societies
14:50	Ryan Hannam (KCL)	Cell reprogramming modelled as transitions in a hierarchy of cell cycles
15:10		Coffee Break
15:30	Pietro Rotondo (Nott)	Open quantum generalisation of Hopfield neural networks
16:00	Carlos Pérez-Espigares (Nott)	Current fluctuations in classical and quantum systems far from equilibrium
16:30	Dominic Rose (Nott)	Metastability in open quantum systems
16:50		Close

Posters – Room S5.20

Barbara Bravi (EPFL)	Hidden state inference for linear Langevin dynamics
Davide Facoetti (KCL)	From non-ergodic eigenvectors to local resolvent statistics and back: a random matrix perspective
Adam Kells (KCL)	Markov Models of Non-Equilibrium Data in Bio Molecular Processes
Julius Julius (KCL)	Computing the Initial Weights of a Learning Network from the Phase Transition Region in its Error Landscape
Riccardo Margiotta (KCL)	Hopping in complex energy landscapes: glassy-dynamics and localisation
Shubham Pandey (KCL)	Hide and Seek Games