

Workshop “Promoting collaboration in Probability and Applied Mathematics” (IMPA-Bath workshop)

IMPA, Rio de Janeiro, January 23-27, 2017

Auditorium 1

Hour	Monday, 23
09:00	Registration
09:30	Welcome
09:45	Hubert Lacoïn, IMPA Cutoff phenomenon for the asymmetric simple exclusion process and the biased card shuffling
10:15	André Nachbin, IMPA The Uncertain Trajectory of a hydrodynamic pilot-wave
10:45	Break
11:15	Augusto Teixeira, IMPA Sharpness of the phase transition for continuum percolation on \mathbb{R}^2
11:45	Lunch
14:00	Rob Morris, IMPA Kinetically constrained spin models and bootstrap percolation
14:30	Apala Majumdar, Bath The Mathematics of Liquid Crystals: Merging Theory, Simulations and Experiments
15:00	Claudio Landim, IMPA A reaction-diffusion model
15:30	Break
16:00	Alexei Mailybaev, IMPA Spontaneously stochastic solutions from singular initial data
16:30	Alexandre Stauffer, Bath Multi-particle diffusion limited aggregation
17:00	Simon Griffiths, IMPA Moderate deviations of random graph subgraph counts
17:30	Discussion

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Hour	Tuesday, 24
09:15	Paul Milewski, Bath (SAMBa) Discussion
09:45	Susie Douglas, Bath (Funding) Discussion
10:15	Break
10:45	José Cuminato, USP (CeMEAI) Center for Mathematical Sciences Applied to Industry – CEPID-CeMEAI
11:15	Discussion
11:45	Lunch
14:00	Tim Rogers, Bath Epidemics on networks: the risky and the at-risk
14:30	Jorge Zubelli, IMPA A Non-intrusive Stratified Resampler for Regression Monte Carlo
15:00	Jonathan Evans, Bath Complex Fluids with Memory
15:30	Break
16:00	Chris Guiver, Bath Simple adaptive feedback control for positive state systems with potential applications to pest management
16:30	David Andrade, IMPA Water waves over irregular bottoms
17:00	Carlos Galeano-Rios, Bath A Model for the Impact of a Superhydrophobic Sphere onto a Bath and Application to Bouncing Droplets
17:30	Discussion
19:00	Conference Dinner

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Hour	Wednesday, 25
09:15	Milton Jara, IMPA Non-equilibrium fluctuations of interacting particle systems
09:45	Marcel Ortgiese, Bath Branching random walks in random environment
10:15	Break
10:45	Roberto Imbuzeiro de Oliveira, IMPA Variational inequalities and random data
11:15	Daniel Ahlberg, IMPA Particle flows and geodesics in a random metric space
11:45	Lunch
14:00	<i>Free Afternoon</i>

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Hour	Thursday, 26
09:15	Discussion and Collaboration
11:45	Lunch
14:00	Cassio M. Oishi, UNESP A numerical study of the Oldroyd-B fluid in the natural stress formulation
14:30	Roberto Ribeiro, UFPR Flow structure beneath rotational water waves with stagnation points
15:00	Ailín Ruiz de Zárate, UFPR A higher order Internal Wave Model
15:30	Break
16:00	Francisco Virissimo, Bath Multilayered flows in the shallow-water limit: formulation and stability
16:30	Daniel G. Alfaro Vigo, UFRJ Time reversal of waves in random media
17:00	Clodoaldo Ragazzo, USP Viscoelastic Tides: Models for Use in Celestial Mechanics
17:30	Yuan Jin Yun, UFPR Numerical methods for fractional convection-diffusion equations

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Hour	Friday, 27
09:15	Discussion and Collaboration
11:45	Lunch
14:00	<i>Free Afternoon</i>