



XIV Arrábida meeting “Caminhos da Complexidade”

Statistical dynamics of complex systems

July 1-4, 2013

PROGRAM

Monday, 1st July

09:00-10:00 – M. PULVIRENTI (University of Rome la Sapienza, Italy) – A Kac's model for Fermions.

10:00-11:00 – P. MORRISON (University of Texas at Austin, USA) – Some Benchmarks for Vlasov Simulation.

11:00-11:30 – *Coffee Break*

11:30-12:30 – A. J. SOARES (University of Minho, Portugal) – Kinetic modeling and applications of chemically reactive mixtures.

13:00-15:00 – *Lunch*

15:00-16:00 – F. BONETTO (Georgia Tech, USA) – Propagation of Chaos for a simple model of electric conduction with a Gaussian Thermostat.

16:00-16:30 – *Coffee Break*

16:30-17:30 – I. GAMBA (University of Texas at Austin, USA) – TBA

Tuesday, 2nd July

09:00-10:00 – C. LIVERANI (University of Rome Tor Vergata, Italy) – Heat transport and weak coupling.

10:00-11:00 – S. CAPRINO (University of Rome Tor Vergata, Italy) – On the Vlasov Plasma with Infinite Charge.

11:00-11:30 – *Coffee Break*

11:30-12:30 – L. CAFFARELLI (University of Texas at Austin, USA) – Some problems of segregation.

13:00-15:00 – *Lunch*



15:00-16:00 – B. WENBERG (Chalmers Institute, Sweden) – The N-player war of attrition in the limit of infinitely many players.

16:00-16:30 – *Coffee Break*

16:30-17:30 – R. V. MENDES (Complexity Sciences Institute, Portugal) – The stochastic solution approach to nonlinear PDE's.

Wednesday, 3rd July

09:00-10:00 – E. BEN NAIM (Los Alamos, USA) – Statistics of Superior Records.

10:00-11:00 – E. DOLERA (University of Pavia, Italy) – On a probabilistic representation of McKean-type for Spatially Homogeneous Maxwellian Molecules.

11:00-11:30 – *Coffee Break*

11:30-12:30 – E. ORLANDI (University of Roma Tre, Italy) – Local and nonlocal Ginzburg-Landau functionals with random external field: minimizers and interfaces.

13:00-14:30 – *Lunch*

14:30-15:30 – J. OLIVEIRA (Open University, Lisbon, Portugal)) – Dynamical Widom-Rowlinson model and its mesoscopic limit.

15:30-16:00 – *Coffee Break*

16:00-17:00 – S. BANISCH (University of Bielefeld, Germany) – Towards a Markov Chain Theory of Aggregation in Agent-Based Models.

17:00-18:00 – R. MARRA (University of Rome Tor Vergata, Italy) – Competing interactions in kinetic models for fluids and spin systems.

(*) Thursday, 4th July

10:00-11:00 – E. CARLEN (Rutgers University, USA) – TBA.

11:00-11:30 – *Coffee Break*

11:30-12:30 – R. ESPOSITO (University of Rome Tor Vergata, Italy) – Non-Isothermal Boundary for the Boltzmann equation.

(*) This session takes place on the Amphitheater of IIIUL – Av. Prof. Gama Pinto, 2, 1649-003 Lisboa