About Entropy in Large Classical Particle Systems 25-29 September 2023 L2

Schedule

Monday 25 September

- 14:00-15:00 Jean-René Chazottes, Entropy in dynamical systems and ergodic theory
- 15:00-16:00 Freddy Bouchet, *Relations between various entropy concepts and the quasipotentials of classical kinetic theories*
- 16:00-16:30 Coffee
- 16:30-17:30 Clément Mouhot, Entropy in PDE analysis
- 17:30-18:30 Lorenzo Bertini, Thermodynamic potentials for stationary non-equilibrium states

Tuesday 26 September

9:00-10:00	Milton Jara, Entropy methods in particle systems
10:00-11:00	Juan Soler, Mean-field limit of non-exchangeable multi-agent systems
11:00-11:30	Coffee
11:30-12:30	Arnaud Guillin, Entropy and mean field systems
12:30-14:00	Lunch
14:00-15:00	Daniel Lacker, Projected Langevin dynamics and entropic optimal transport
15:00-16:00	François Golse, The regularity problem for the Landau equation
16:00-16:30	Coffee
16:30-17:30	Joel Lebowitz, Boltzmann's entropy for macroscopic systems: the dilute gas

Wednesday, 27 September – Clay Research Conference, L1

- 10:00-11:00 Valentin Blomer, Density theorems and applications
 11:00-11:30 Coffee
 11:30-12:30 John Pardon, Derived moduli spaces of pseudo-holomorphic curves
 12:30-14:00 Lunch
 14:00-15:00 Laure Saint Raymond, What does entropy measure?
 15:00-15:30 Coffee
 15:30-16:30 Chenyang Xu, Kähler-Einstein metric, K-stability and moduli spaces
- 16:30-17:30 Ivan Smith, The work of John Pardon Isabelle Gallagher, The work of Frank Merle, Pierre Raphaël, Igor Rodnianski, Jérémie Szeftel Presentation of the 2022 and 2023 Clay Research Awards
 17:20, 10:00 Desention in the Mathematical Institute
- 17:30-19:00 Reception in the Mathematical Institute

Thursday 28 September

- 9:00-10:00 Matt Rosenzweig, Mean-field limits for Riesz systems
- 10:00-11:00 François Huveneers, Spreading of a wave packet in a classical disordered anharmonic chain
- 11:00-11:30 Coffee
- 11:30-12:30 Stefano Olla, *Heat equation from a deterministic dynamics*
- 12:30-14:00 Lunch
- 14:00-15:00 Giada Basile, Energy non-conserving paths for the Kac's walk

15:00-16:00 Daniel Heydecker, Dynamic Large Deviations: in search of matching bounds
16:00-16:30 Coffee
16:30-17:30 Thomas Leblé, Some aspects of the specific relative entropy in the study of log-gases

17:30-18:30 Isabelle Gallagher, Large Deviations for hard spheres in the low density limit

Friday 29 September

- 9:00-10:00 Jérôme Buzzi, Entropy, classifications, and structure theorems in dynamics
- 10:00-10:30 Coffee
- 10:30-11:30 Herbert Spohn, *Integrable many-particle systems: generalised entropy and particle scattering*