Information for participants

Microscopic descriptions and mean-field equations in physics and social sciences

Bath Spring School, 12–16 May 2014

Schedule

	Monday	Tuesday	Wednesday	Thursday	Friday
9:15 - 10:05	**9:15** Registration **9:45** Opening	Peletier	Gomes	Huang	Norris
10:15 - 11:05	Jabin	Jabin	Jabin	Gomes	Gutiérrez
11:05 - 11:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:30 - 12:20	Peletier	Gomes	Norris	Norris	Zimmer
12:20 - 14:15					
14:15 - 15:05	Gomes	Jabin	Carrillo	Einav	
15:05 - 15:30	Coffee break	Coffee break	Coffee break	Coffee break	
15:30 - 16:20	Bruna	Velázquez	Choi	Peletier	
16:30 - 17:20		Poster session			
Evening					

Courses

D. Gomes. Introduction to the regularity theory for mean-field games
P.-E. Jabin. Mean field limit for systems of many particles
J. Norris. Fluid limits for some mean-field particle systems
M. Peletier. From Diffusion to Reaction via Gamma-convergence

Talks

M. Bruna. Finite-size effects in diffusion
J. A. Carrillo. Minimizers of Interaction Energies
Y.-P. Choi. Mean-field limit and propagation of chaos for aggregation equations
A. Einav. Of Chaos and Chaotic States in Kac's Model
S. Gutiérrez. On estimates for kinetic equations and applications to models of chemotaxis
Y. Huang. Stability of self-propelled particle systems and existence of flocking solutions for the continuum limit
C. Mouhot. Semigroup approaches to many-particle limits
J. J. L. Velázquez. Singularity formation for kinetic equations with cubic nonlinearities
J. Zimmer. Entropic flows, stochastic perturbations and microscopic models

Location

The school takes place at the Department of Mathematical Sciences of the University of Bath, in the Wolfson Lecture Theater 4W 1.7, circled in red in the map below.