

Monday, May 19	Collective Behavior: Macroscopic versus Kinetic Descriptions
08:30 – 09:30	REGISTRATION
MORNING SESSION	Chair: José A. Carrillo (Imperial College London)
9:30 - 9:40	José A. Carrillo <i>Welcoming Remarks</i>
9:40 - 10:10	Vincent Calvez (École Normale Supérieure de Lyon) "Travelling waves for kinetic equations issued from biology"
10:15 - 10:45	COFFEE BREAK - Mathematics Common Room (Room 549)
10:45 - 11:15	Raluca Eftimie (Dundee University) "Bifurcation dynamics in nonlocal hyperbolic models for self-organised aggregations"
11:20 - 12:00	Guy Theraulaz (Université Paul Sabatier) "From individual to collective information processing in fish schools"
12:00 - 2:00	LUNCH BREAK
AFTERNOON SESSION	Chair: Marco Di Francesco (University of Bath)
2:00 – 2:40	Endre Süli (University of Oxford) "Existence of global weak solutions to implicitly constituted kinetic models of incompressible homogeneous dilute polymers"
2:45 - 3:15	Stephan Martin (Imperial College London) "On the analysis of coherent patterns in swarming models"
3:15 - 3:45	COFFEE BREAK - Mathematics Common Room (Room 549)
3:45 - 4:25	Ansgar Jüngel (Viennal University of Technology) "Analysis of cross-diffusion models for multi-species systems: How entropy can help"

Tuesday, May 20	Collective Behavior: Macroscopic versus Kinetic Descriptions
MORNING SESSION	Chair: Irene Gamba (The University of Texas at Austin)
9:30 - 10:10	Hailiang Liu (Iowa State University) "Structure Preserving Methods for Fokker-Planck-type Equations"
10:15 - 10:45	COFFEE BREAK - Mathematics Common Room (Room 549)
10:45 - 11:15	Adrien Blanchet (Université Toulouse 1 Capitole) "Cournot-Nash equilibria"
11:20 - 12:00	Christian Ringhofer (Arizona State University) Wealth evolution in spatially structured economies driven by local Nash equilibria with risk averse trading strategies
12:00 - 2:00	LUNCH BREAK
CONTRIBUTED SESSION	Chair: Stephan Martin (Imperial College London)
2:00 - 2:30	Amit Einav (Cambridge University) "On Chaotic States in Kac's Model"
2:35 - 3:05	Young-Pil Choi (Imperial College London) "On the analysis of a coupled kinetic-fluid model"
3:10 - 3:40	Yekaterina Epshteyn (University of Utah) "A Theory and Challenges for Coarsening in Microstructure"
3:40 - 4:10	COFFEE BREAK - Mathematics Common Room (Room 549)
4:10 - 4:40	Piotr Gwiazda (University of Warsaw) "Polymeric fluids"
4:45 - 5:15	Alex Kurganov (Tulane University) "Pedestrian Flow Models with Slowdown Interactions"

Wednesday, May 21	Collective Behavior: Macroscopic versus Kinetic Descriptions
MORNING SESSION	Chair: Alina Chertock (North Carolina State University)
9:30 - 10:10	Bjorn Engquist (The University of Texas at Austin) "Coupling particle, kinetic and fluid models by HMM"
10:15 - 10:45	COFFEE BREAK - Mathematics Common Room (Room 549)
10:45 - 11:25	Ron DeVore (Texas A&M University) "Sampling and Computation in High Dimensions"
11:30 - 12:10	Benoît Perthame (Université Pierre et Marie Curie) "Conservation laws with rough fluxes and kinetic formulation"
EVENING ACTIVITIES	
7pm (Reception) 8pm (Dinner)	CONFERENCE DINNER AT: Ognisko Restaurant 55 Prince's gate (Exhibition Road) London, SW7 2PN

Thursday, May 22	Collective Behavior: Macroscopic versus Kinetic Descriptions
MORNING SESSION	Chair: Alex Kurganov (Tulane University)
9:30 - 10:10	Philip Maini (Oxford University) "Modelling collective cell migration in biology"
10:15 - 10:45	COFFEE BREAK - Mathematics Common Room (Room 549)
10:45 - 11:25	Pierre-Emmanuel Jabin (University of Maryland) "Asymptotic behavior in opinion formation and rating systems"
11:30 - 12:10	Jonathan Touboul (Collège de France) "Macroscopic activity of spatially extended networks with singular multi-scale connectivity patterns: limits and noise-induced transitions"
12:10 - 2:00	LUNCH BREAK
AFTERNOON SESSION	Chair: Eitan Tadmor (University of Maryland)
2:00 - 2:40	Irene Gamba (The University of Texas at Austin) "Conservative numerical schemes for non-linear kinetic equations"
2:45 - 3:15	Sébastien Motsch (Arizona State University) "Emergence of flocking and consensus"
3:15 - 3:45	COFFEE BREAK - Mathematics Common Room (Room 549)
3:45 - 4:25	Axel Klar (Technische Universität Kaiserslautern) "Mean field hierarchies for interacting particle systems: Numerical methods and applications"

Friday, May 23	Collective Behavior: Macroscopic versus Kinetic Descriptions
MORNING SESSION	Chair: Pierre Degond (Imperial College London)
9:30 - 10:10	Alexander N Gorban (University of Leicester) "Invariant manifolds and hydrodynamic limit in kinetics"
10:15 - 10:45	COFFEE BREAK - Mathematics Common Room (Room 549)
10:45 - 11:15	Yanghong Huang (Imperial College London) "A Finite-Volume Method for Nonlinear Nonlocal Equations with a Gradient Flow Structure"
11:20 - 11:50	Changhui Tan (University of Maryland) "Global classical solution and long time behavior of macroscopic flocking models"
11:55 - 12:35	Giuseppe Toscani (Università di Pavia) "Wealth distribution and collective knowledge. A Boltzmann approach."
12:35	CLOSING CEREMONY