

Monday, September 7, 2015

9:00-9:30	Registration
9:30-9:45	Jonathan Ben-Artzi, Mahir Hadžić, Stephen Pankavich <i>Welcome</i>
9:45-10:30	Pierre Degond (Imperial College) and Yan Guo (Brown) <i>Welcome and historical remarks</i>
10:30-11:00	<i>Coffee Break</i>
11:00-11:45	François Golse (École polytechnique) <i>On the mean-field and classical limits for the N-body Schrödinger equation</i>
11:50-12:35	Yan Guo (Brown) <i>Derivation of steady Navier-Stokes equations from the Boltzmann theory</i>
12:35-14:00	<i>Lunch</i>
14:00-14:45	Philip Morrison (Austin) <i>Sculpting Vlasov phase space</i>
14:45-15:15	<i>Coffee Break</i>
15:15-16:00	Zhiwu Lin (Georgia Tech) <i>Instability index, exponential trichotomy and invariant manifolds for Hamiltonian PDEs</i>
16:05-16:50	Bruno Després (Paris Pierre et Marie Curie) <i>Advances in the modeling of kinetic sheath in plasma</i>

Tuesday, September 8, 2015

9:00-9:45	Silvia Caprino (Roma Tor Vergata) <i>On a Vlasov-Poisson plasma with infinite charge and velocities</i>
9:50-10:35	Evelyne Miot (École polytechnique) <i>Uniqueness for the Vlasov-Poisson system with unbounded density</i>
10:35-11:00	<i>Coffee Break</i>
11:00-11:45	Walter Strauss (Brown) <i>A body moving in a kinetic sea</i>
11:50-12:35	Alexander Schekochihin (Oxford) <i>Phase mixing vs. nonlinear advection in drift-kinetic plasma turbulence</i>
12:35-14:30	<i>Lunch + photo</i>
14:30-15:15	Clément Mouhot (Cambridge) <i>Hölder continuity of solutions to Vlasov-Fokker-Planck type equations with rough coefficients</i>
15:20-16:05	Daniel Han-Kwan (École polytechnique) <i>The quasineutral limit of the Vlasov-Poisson system</i>
18:30-22:30	Conference Dinner at 170 Queen's Gate <i>18:30 Reception, 19:30 Dinner</i>

Wednesday, September 9, 2015

9:00-9:45	Gerhard Rein (Bayreuth) <i>Gravitational collapse and the Vlasov equation</i>
9:50-10:35	Jacques Smulevici (Paris-Orsay) <i>A vector field method for kinetic transport equations with applications to classical and relativistic systems</i>
10:35-11:00	<i>Coffee Break</i>
11:00-11:45	Martin Taylor (Cambridge) <i>Stability of Minkowski space for the massless Einstein-Vlasov system</i>
11:50-12:35	Simone Calogero (Chalmers) <i>Relativistic diffusion</i>
12:35-14:00	<i>Lunch</i>
14:00-14:45	Mohammed Lemou (Rennes) <i>On quantitative rearrangement inequalities and their applications to Vlasov-Poisson, HMF and 2D-Euler systems</i>
14:45-15:15	<i>Coffee Break</i>
15:15-15:45	Igor Gapyak (Kyiv) <i>On the rigorous derivation of the Enskog kinetic equation</i>
15:50-16:20	Cesare Tronci (Surrey) <i>Hybrid kinetic-fluid models for magnetized plasmas</i>
16:25-16:55	Julien Barré (Nice) <i>Perturbation of non homogeneous stationary states of the Vlasov equation</i>

Thursday, September 10, 2015

9:00-9:45	Claude Bardos (Paris Diderot) <i>About the Maxwell-Boltzmann relation for fluids and plasmas</i>
9:50-10:35	Jacob Bedrossian (Maryland) <i>Landau damping in Gevrey regularity for Vlasov-Poisson and connections with hydrodynamic stability</i>
10:35-11:00	<i>Coffee Break</i>
11:00-11:45	Toan Nguyen (Penn State) <i>Stability of a hot plasma in a solid torus</i>
11:50-12:35	Thomas Holding (Cambridge) <i>Instability of non-monotone equilibria of the relativistic Vlasov-Maxwell system on unbounded domains</i>
12:35-14:00	<i>Lunch</i>
14:00-14:45	Claude Bardos (Paris Diderot) <i>Open problems and future directions</i>
14:45-15:15	<i>Coffee Break</i>
15:15-16:00	Susana Gutierrez (Birmingham) <i>Strichartz estimates for the kinetic transport equation</i>
16:05-16:50	Jonathan Luk (Cambridge) <i>Strichartz estimates and moment bounds for the Vlasov-Maxwell system</i>

Friday, September 11, 2015

9:00-9:45	Irene Gamba (Austin) <i>On computational issues of Vlasov-Maxwell and Vlasov-Poisson-Landau</i>
9:50-10:35	Yingda Cheng (Michigan State) <i>Energy-conserving discontinuous Galerkin schemes for the Vlasov-Maxwell system</i>
10:35-11:00	<i>Coffee Break</i>
11:00-11:45	Martin Campos Pinto (Paris Pierre et Marie Curie) <i>On structure-preserving DG-PIC schemes for the Vlasov-Maxwell system</i>
11:50-12:35	Nikolaos Bournaveas (Edinburgh) <i>Global existence and blow up for some kinetic and hyperbolic models of chemotaxis</i>
12:40-13:25	Slim Ibrahim (University of Victoria) <i>The Vlasov-Poisson system for stellar dynamics in spaces of constant curvature</i>
13:25-13:35	<i>Closing</i>