PDE and Fluids
Schedule
L4

Monday 29 September

9:30-10:30	Diego Córdoba, *Vortex layer cascades and finite time singularities for incompressible fluids*
10:30-11:00	Coffee
11:00-12:00	Laure Saint-Raymond, *Fluctuations in kinetic and fluid models*
12:00-14:00	Lunch
14:00-15:00	Matthew Novack, *Dissipative Euler solutions and helicity*
15:00-15:30	Coffee
15:30-16:30	Steve Shkoller, *The sad story of the steepening soundwave*

Tuesday 30 September

9:30-10:30	Maria Colombo, *Non-uniqueness and instability in vanishing viscosity solutions of the Euler equations*
10:30-11:00	Coffee
11:00-12:00	Zaher Hani, *Longtime derivation of the Boltzmann and fluid equations*
12:00-14:00	Lunch
14:00-15:00	Thomas Hou
15:00-15:30	Coffee
15:30-16:30	Javier Gómez-Serrano, *Discovery of unstable singularities*

Wednesday 1 October

10:00-11:00	Vladimir Šverak, *A report on the Navier-Stokes Problem*
11:00-11:30	Coffee
11:30-12:30	Chris Skinner, *The Birch—Swinnerton-Dyer Conjecture: a millennium prize problem at 25*
12:30-14:30	Lunch
14:30-15:30	Martin Hairer, *Yang—Mills and the Mass Gap*
15:30-16:00	Coffee
16:00-17:00	Avi Wigderson, *P vs NP*
17:00	Reception in Mathematical Institute
19:00	Dinner at Exeter College for invited guests

Thursday 2 October

10:00-11:00	Jeff Brock, *3-manifolds after Perelman: topology, geometry, and effective rigidity*
11:00-11:30	Coffee
11:30-12:30	Bruce Kleiner, *Ricci flow after Perelman*
12:30-14:30	Lunch
14:30-15:30	Burt Totaro, *The Hodge conjecture: geometry and analysis*
15:30-16:00	Coffee
16:00-17:00	Kannan Soundararajan, *Progress on zeta and L-functions motivated by the Riemann hypothesis*

Friday 3 October

9:30-10:30	Jacob Bedrossian
10:30-11:00	Coffee
11:00-12:00	Klaus Widmayer, *Global axisymmetric Euler flows with rotation*
12:00-14:00	Lunch
14:00-15:00	Tarek Elgindi, *Aspects of the long-time behavior of ideal fluids*
15:00-15:30	Coffee
15:30-16:30	Alexander Kiselev, *Singularity suppression by fluid flow*