

**Hodge Theory and Algebraic Cycles**  
**Schedule**  
**L3**

**Monday 29 September**

- 9:30-10:30 Daniel Huybrechts, *Universal Brauer—Severi varieties and applications*  
10:30-11:00 Coffee  
11:00-12:00 Ekaterina Amerik, *Parabolic automorphisms of hyperkahler manifolds and related questions*  
12:00-14:00 Lunch  
14:00-15:00 Junliang Shen, *Cohomology of the universal Jacobian and compactifications*  
15:00-15:30 Coffee  
15:30-16:30 Eyal Markman, *Cycles on abelian  $2n$ -folds of Weil type from secant sheaves on abelian  $n$ -folds*

**30 September**

- 9:30-10:30 Alexander Petrov, *Coniveau filtration in  $p$ -adic cohomology*  
10:30-11:00 Coffee  
11:00-12:00 Anna Cadoret, *Tate locus - conjectures and results*  
12:00-14:00 Lunch  
14:00-15:00 Stefan Schreieder, *Matroids and the integral Hodge conjecture for abelian varieties*  
15:00-15:30 Coffee  
15:30-16:30 Benjamin Bakker, *Baily—Borel compactifications of period images and the  $b$ -semiample conjecture*

**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 Claire Voisin, *Universal 0-cycles and the integral Hodge conjecture*  
10:30-11:00 Coffee  
11:00-12:00 François Charles, *Finiteness theorems for infinite-dimensional Euclidean lattices and solutions to ordinary differential equations*  
12:00-14:00 Lunch  
14:00-15:00 Salim Tayou, *The non-abelian Hodge locus*  
15:00-15:30 Coffee  
15:30-16:30 Bruno Klingler, *Special loci for local systems*