

The Birch and Swinnerton-Dyer Conjecture and Related Problems
Schedule
L3

Monday 21 September

- 9:30-10:30 Alex Smith, *BSD implies Goldfeld's conjecture*
10:30-11:00 Coffee
11:00-12:00 Kaivalya Kulkarni, *Prime Quadratic Twists of Elliptic Curves*
12:00-14:00 Lunch
14:00-15:00 John Cremona, *Hyperelliptic densities*
15:00-15:30 Coffee
15:30-16:30 Naomi Sweeting, *New bounds on adjoint Selmer groups for Hilbert modular forms*

Tuesday 22 September

- 9:30-10:30 Ari Shnidman, *Sums of two rational cubes*
10:30-11:00 Coffee
11:00-12:00 Ana Caraiani, *Recent advances on modularity*
12:00-14:00 Lunch
14:00-15:00 Ashay Burungale, *A proof of Sylvester's conjecture*
15:00-15:30 Coffee
15:30-16:30 Marco Sangiovanni Vincentelli, *Theta classes on modular curves and Euler systems*

Wednesday 23 September

- 10:00-11:00 Rafe Mazzeo, *Overdetermined problems in geometry*
11:00-11:30 Coffee
11:30-12:30 Tomer Schlank, *The Stable Homotopy Groups of Spheres*
12:30-14:00 Lunch
14:00-15:00 Hong Wang, *Orthogonal projections for a restricted family of directions*
15:00-15:30 Coffee
15:30-16:30 Wei Zhang, *Arithmetic diagonal cycles and L-functions*
16:40-17:30 Peter Varju, *The work of Orponen, Shmerkin, Wang, Zahl*
Mike Hopkins, *The work of Burklund, Hahn, Levy, Schlank*
Thomas Clay, *Presentation of the 2026 Clay Research Awards*
17:30-19:00 Reception in the Mathematical Institute
19:00 Dinner for invited guests, Exeter College

Thursday 24 September

- 9:30-10:30 Noam Elkies: *The quest for elliptic curves of high rank*
10:30-11:00 Coffee
11:00-12:00 Ye Tian, *Refined Tunnell–Saito Theory and Non-vanishing Applications*
12:00-14:00 Lunch
14:00-15:00 Shou-Wu Zhang, *From Euclid to Gross--Zagier: A Mathematical Journey Across Two Millennia*
15:00-15:30 Coffee
15:30-16:30 Open problem session

Friday 25 September

- 9:30-10:30 Ziquan Yang, *Producing cycles across characteristics*
10:30-11:00 Coffee
11:00-12:00 David Zywin, *Elliptic curves of low rank over number fields*