P vs NP and Complexity Lower Bounds
Schedule
L1

Monday 29 September

9:00-9:45	Leslie Valiant, *A combinatorial quantity in counting complexity*
9:45-10:30	David Zuckerman, *Randomness extractors, pseudorandom generators, and lower bounds*
10:30-11:00	Coffee
11:00-11:45	Ben Rossman, *The Mystery of Negations*
11:45-14:00	Lunch
14:00-14:45	Ryan O'Donnell, *No exponential quantum speedup for SIS∞ anymore*
14:45-15:30	Henry Yuen, *The power and limits of constant-time quantum computation*
15:30-16:00	Coffee

Tuesday 30 September

9:00-9:45	Toniann Pitassi, *Data structure lower bounds, local PRGs, and range avoidance: new connections and lower bounds*
9:45-10:30	Pavel Pudlák, *NP vs. coNP and hard tautologies*
10:30-11:00	Coffee
11:00-11:45	Igor Oliveira, *Meta-mathematics of P vs NP*
11:45-14:00	Lunch
14:00-14:45	Iddo Tzameret, *The algebraic approach to proof complexity*
14:45-15:30	Nutan Limaye, *Recent progress on algebraic circuit lower bounds*
15:30-16:00	Coffee
16:00-16:45	Shubhangi Saraf, *The complexity of factors of polynomials*

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—Swinnterton-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

9:00-9:45	Michal Koucky, *Recent developments in catalytic computing*
9:45-10:30	Ryan Williams, *Simulating time with square-root space*
10:30-11:00	Coffee
11:00-11:45	Christian Ikenmeyer, *Algebraic metacomplexity and representation theory*
11:45-14:00	Lunch
14:00-14:45	Eric Allender, *Progress on the power of recognizing randomness*
14:45-15:30	Valentine Kabanets, *Kolmogorov's approach to P vs NP*
15:30-16:00	Coffee
16:00-16:45	Shuichi Hirahara, *NP-hardness of the Minimum Circuit Size Problem from well-studied assumptions*