

**Geometric Representation Theory and Beyond**  
**September 26 – 30, 2016**

**Schedule - L2**

**Monday, September 26**

- 9:30-10:00 Registration  
10:00-11:00 Geordie Williamson, *An example of higher representation theory*  
11:00-11:30 Coffee  
11:30-12:30 Alexander Braverman, *Coulomb branches of 4-dimensional gauge theories, cyclotomic double affine Hecke algebras and  $q$ -quasi-invariants*  
12:30-15:00 Lunch  
15:00-16:00 Tamas Hausel, *Refined geometric invariants and representation theory*  
16:00-16:30 Coffee  
16:30-17:30 Andrei Okounkov,  *$q$ -deformed conformal blocks: difference equations and integral formulas*

**Tuesday, September 27**

- 9:30-10:30 Catharina Stroppel, *Super representation theory via geometry, invariant theory and categorification*  
10:30-11:00 Coffee  
11:00-12:00 Konstantin Ardakov, *The  $p$ -adic local Langlands program and  $D$ -modules*  
12:00-15:00 Lunch  
15:00-16:00 Wolfgang Soergel, *Motivic methods in representation theory*  
16:00-16:30 Coffee  
16:30-17:30 Victor Ginzburg, *Moduli spaces, indecomposable objects and potentials over a finite field*

**Wednesday, September 28 - Clay Research Conference**

- 10:00-11:00 David Ben-Zvi, *Representation Theory as Gauge Theory*  
11:00-11:30 Coffee  
11:30-12:30 Bill Minicozzi, *The mean curvature flow*  
12:30-14:00 Lunch  
14:00-15:00 János Kollár, *Celestial surfaces and quadratic forms*  
15:00-15:30 Coffee  
15:30-16:30 Manjul Bhargava, *What is the Birch and Swinnerton-Dyer Conjecture, and what is known about it*  
16:30-17:30 Presentation of the 2016 Clay Research Awards  
17:30-19:00 Reception in the Mathematical Institute

**Thursday, September 29**

- 9:30-10:30 Dennis Gaitsgory, *Metaplectic Whittaker sheaves and quantum groups*  
10:30-11:00 Coffee  
11:00-12:00 Vera Serganova, *Lie superalgebra  $P(n)$  and Temperley–Lieb algebra at 0*  
12:00-15:00 Lunch  
15:00-16:00 David Nadler, *Lagrangian skeleta*  
16:00-16:30 Coffee

16:30-17:30 David Ben-Zvi, *Central symmetries in categorical representation theory*

**Friday, September 30**

9:00-10:00 Michael Harris, *Report on the mod  $p$  local Langlands correspondence*

10:00-10:30 Coffee

10:30-11:30 Laurent Fargues, *Geometrization of the local Langlands correspondence*

11:45-12:45 Constantin Teleman, *Categorical representation theory and applications*