

Modern Moduli Theory
September 25 – 29, 2017

Schedule

Monday, September 25, L2

- 9:00-9:30 Registration
9:30-10:30 Chris Dodd, *A k -valued cohomology theory for varieties over k*
10:30-11:00 Coffee
11:00-12:00 Tom Nevins, *Compactifications, cohomology, and categories associated to moduli spaces*
12:00-13:30 Lunch
13:30-14:30 Kobi Kremnitzer, *Differentiable chiral algebras*
14:30-15:00 Coffee
15:00-16:00 Dario Beraldo, *The center of the monoidal category of "higher differential operators"*
16:00-16:15 Break
16:15-17:15 Frances Kirwan, *Applications of non-reductive geometric invariant theory*

Tuesday, September 26, L2

- 9:30-10:30 Elham Izadi, *A uniformization of the moduli space of abelian sixfolds*
10:30-11:00 Coffee
11:00-12:00 Georg Oberdieck, *Curve counting on elliptic Calabi-Yau threefolds: $K3xE$ and the Schoen Calabi-Yau*
12:00-13:30 Lunch
13:30-14:30 Barbara Fantechi, *DGLA and deformations of log orbifolds*
14:30-15:00 Coffee
15:00-16:00 Yukinobu Toda, *Gopakumar-Vafa invariants and wall-crossing*
16:00-16:15 Break
16:15-17:15 Jørgen Rennemo, *Homological projective duality and the birational Torelli problem for Calabi-Yau 3-folds*

Wednesday, September 27 – Clay Research Conference – L1

- 10:00-11:00 Larry Guth, *Introduction to decoupling*
11:00-11:30 Coffee
11:30-12:30 Bertrand Toën, *Algebraic geometry, categories and trace formulas*
12:30-14:00 Lunch
14:00-15:00 Ovidiu Savin, *From second order equations to nonlocal PDEs*
15:00-15:30 Coffee
15:30-16:30 Tamar Ziegler, *Dynamics, arithmetic progressions and approximate cohomology*
16:30-17:30 Presentation of the 2017 Clay Research Awards
17:30-19:00 Reception in the Mathematical Institute

Thursday, September 28, L2

- 9:30-10:30 Tony Pantev, *Gluing in nc geometry and applications*
10:30-11:00 Coffee
11:00-12:00 Bertrand Toën, *Shifted symplectic structures and exponential motives*

12:00-14:00 Lunch
14:00-15:00 Nick Rozenblyum, *Quantization of moduli spaces and counting*
15:00-15:30 Coffee
15:30-16:30 Chris Brav,

Friday, September 29, L2

9:30-10:30 Andrei Okounkov, *Gauge theories and Bethe eigenfunctions*
10:30-11:00 Coffee
11:00-12:00 Ben Davison, *BPS sheaves and Lie algebras*
12:00-14:00 Lunch
14:00-15:00 Sven Meinhardt, *Integrality in Donaldson-Thomas theory*
15:00-15:30 Coffee
15:30-16:30 Yalong Cao, *Gopakumar-Vafa type invariants for Calabi-Yau 4-folds*