**Algebraic Geometry: Old and New**
**September 26 – 30, 2016**

**Schedule - L3**

**Monday, September 26**

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|---|---|
| 9:00-9:30 | Registration |
| 9:30-10:30 | Song Sun, *Geometric flows and algebraic stability* |
| 10:30-11:00 | Coffee |
| 11:00-12:00 | Xiaowei Wang, *Moduli space of Fano Kähler-Einstein manifolds* |
| 12:00-14:00 | Lunch |
| 14:00-15:00 | Cristiano Spotti, *Kähler-Einstein metrics on smoothable Q-Fano varieties* |
| 15:00-15:30 | Coffee |
| 15:30-16:30 | Jacopo Stoppa, *K-stability, equivariance and filtrations* |
| 16:45-17:45 | Yuchen Liu, *The volume of Kähler-Einstein Q-Fano varieties* |

**Tuesday, September 27**

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| 9:30-10:30 | Yuji Odaka, *On compactifying the moduli spaces of Kähler-Einstein varieties* |
| 10:30-11:00 | Coffee |
| 11:00-12:00 | Kento Fujita, *A valuative criterion for uniform K-stability of log Fano pairs* |
| 12:00-14:00 | Lunch |
| 14:00-15:00 | Dominic Joyce, *New Donaldson-Thomas style counting invariants for Calabi-Yau 4-folds* |
| 15:00-15:30 | Coffee |
| 15:30-16:30 | Emanuele Macri, *Tilting of bounded t-structures and applications* |
| 16:45-17:45 | Conan Leung, *Categorical Plucker formula and homological projective dual* |

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

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|---|---|
| 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 Swinnterton-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**

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| 9:30-10:30 | Bernd Siebert, *An intrinsic mirror symmetry construction* |
| 10:30-11:00 | Coffee |
| 11:00-12:00 | Mark Gross, *An intrinsic mirror symmetry construction* |

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| 12:00-14:00 | Lunch |
| 14:00-15:00 | Tom Coates, *Mirror symmetry and Fano manifolds* |
| 15:00-15:30 | Coffee |
| 15:30-16:30 | Eduard Looijenga*, Basic Tate extensions in the cohomology of Baily-Borel compactifications* |
| 16:45-17:45 | TBC |

## Friday, September 30

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| 9:30-10:30 | Alessandro Verra, *The universal K3 surface of genus 14 via cubic fourfolds* |
| 10:30-11:00 | Coffee |
| 11:00-12:00 | Christian Böhning, *Stable non-rationality for some conic bundles over rational surfaces and rational threefolds* |
| 12:00-14:00 | Lunch |
| 14:00-15:00 | Jaroslaw Wiśniewski, *Flag varieties, a geometric characterization and rigidity* |
| 15:00-15:30 | Coffee |
| 15:30-16:30 | Anne-Sophie Kaloghiros, *The Sarkisov program for Mori fibred Calabi-Yau pairs* |
| 16:45-17:45 | TBC |