

ARITHMETIC AND GEOMETRY OF ALGEBRAIC VARIETIES  
WITH SPECIAL EMPHASIS ON  
CALABI–YAU VARIETIES AND MIRROR SYMMETRY

MARCH 4–5, 2006

The Fields Institute, 222 College Street, Toronto

Organized by James D. Lewis (Alberta) and Noriko Yui (Queen's)

MARCH 4, 2006

- 9:30am **Ling Long**, Iowa State University  
**The modularity of certain elliptic modular surfaces**
- 10:30am **Remke Kloosterman**, University of Hannover and Queen's University  
**The  $L$ -series of a cubic fourfold**
- 11:30am **Matt Papanikolas**, Texas A& M University  
**Hypergeometric functions over finite fields and counting points on varieties**
- 12:30pm–2:00pm **Lunch**
- 2:00pm **Roya Beheshti–Zavareh**, Queen's University  
**Rational surfaces in smooth hypersurfaces**
- 3:00pm **Marco Aldi**, Northwestern University  
**Seidel's mirror map for abelian varieties**
- 4:00pm **Steven Lu**, UQAM  
**The birational geometry of log Calabi–Yau and log abelian varieties**
- 5:00pm **Helena Verrill**, Louisiana State University  
**The  $A_n$  family of Calabi–Yau threefolds**
- 7:00pm **Workshop Dinner**

MARCH 5, 2006

- 9:30am **Chuck Doran**, University of Washington  
**Modular invariants for lattice polarized K3 surfaces**
- 10:30am **Andreas Rosenschon**, State University of New York at Buffalo  
**Motives (after M. Nori)**
- 11:30pm **Matt Kerr**, University of Chicago  
**Periods of the Milnor regulator and irrationality proofs**
- 12:30pm **Mike Roth**, Queen's University  
**Accumulation of rational points and curvature**

Afternoon **Discussions**