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

**NOVEMBER 5-6, 2005** 

The Fields Institute, 222 College Street, Toronto Organized by James D. Lewis (Alberta) and Noriko Yui (Queen's)

## **NOVEMBER 5, 2005**

- 9:30am Roy Joshua, Ohio State University

  Kunneth and motivic decomposition for quotient varieties
- 10:30am Ronald van Luijk, CRM Montreal and MSRI Berkeley Quartic K3 surfaces with trivial automorphism group
- 11:30am Matt Papanikolas, Texas A& M University
  Hypergeometric functions over finite fields and counting points on varieties
- 12:30 pm 2:30 pm Lunch
- 2:30pm Helena Verrill, Louisiana State University Toric modular Calabi–Yau threefolds
- 3:30pm Nam-Hoon Lee, University of Michigan New examples of Calabi-Yau threefolds with Picard number one
- 4:30pm John Scherk, University of Toronto
  Borel-Serre compactifications of classifying spaces of Hodge structures
- 6:30pm Workshop Dinner

## **NOVEMBER 6, 2005**

- 9:30am Andreas Rosenschon, State University of New York at Bullafo
  A Lefschetz (1, 1)-theorem for proper seminormal complex varieties
- 10:30am Michela Artebani, University of Milano and Queen's University A moduli space of genus three curves and K3 surfaces
- 11:30am Noriko Yui, Queen's University Motives and Mirror Symmetry

Afternoon Discussions