ARITHMETIC AND GEOMETRY OF HIGHER DIMENSIONAL VARIETIES

WITH SPECIAL EMPHASIS ON CALABI-YAU VARIETIES AND MIRROR SYMMETRY MARCH 5-6, 2005

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

PROGRAM

MARCH 5, 2005

- 10:00am Victor Batyrev, University of Tübingen/The Fields Institute Phases in local toric mirror symmetry
- 11:15am Paul Horja, The Fields Institute
 Birational geometry of toric stacks and monodromy
- 12:15pm-2:00pm **Lunch**
- 2:00pm Roya Beheshti-Zavareh, Queen's University Lines on projective hypersurfaces
- 3:30pm Edward Lee, Harvard University
 A modular nonrigid Calabi-Yau threefolds arising from the
 Horrocks-Mumford vector bundle
- 4:45pm Yuri Zarhin, Pennsylvania State University
 Endomorphism algebras of superelliptic Jacobians
- 6:30pm Workshop Dinner at EMATEI, 30 St Patrick, Toronto: Tel 416-340-0472

MARCH 6, 2005

- 9:30am Ling Long, Iowa State University
 Picard-Fuchs equations of certain one-parameter families of K3 surfaces
- 10:40am Ruxandra Moraru, The Fields Institute

 Moduli spaces of stable bundles on certain non-Kahler surfaces
- 11:50am Klaus Hulek, University of Hannover/The Fields Institute
 Modularity of nonrigid Calabi-Yau varieties

Afternoon Discussions