ARITHMETIC AND GEOMETRY OF ALGEBRAIC VARIETIES
WITH SPECIAL EMPHASIS ON
CALABI–YAU VARIETIES AND MIRROR SYMMETRY
OCTOBER 21–22, 2006
The Fields Institute, 222 College Street, Toronto
Organized by James D. Lewis (Alberta) and Noriko Yui (Queen's)

OCTOBER 21, 2006

9:30am **Matthias Schuett**, Harvard University
CM-modular forms and Calabi–Yau varieties

10:30am **Cheol Hyun Cho**, University of Toronto
On the counting of J-holomorphic discs

11:30am **Shuang Cai**, University of Alberta
A simple definition of algebraic connective K-theory

12:30pm–2:30pm **Lunch**

2:30pm **Kentaro Hori**, University of Toronto
Phases of $N = 2$ theories in $1 + 1$ dimensions with boundary

3:30pm **Shengda Hu**, University of Montreal
T-duality and H-flux from generalized Kähler geometry

4:30pm **Vincent Bouchard**, Perimeter Institute, Waterloo
Orbifold Gromov–Witten invariants from mirror symmetry

5:30pm **Nam-Hoon Lee**, KIAS and Queen's University
Some attempts at constructing infinitely many families of Calabi–Yau manifolds

7:00m **Workshop Dinner**

OCTOBER 22, 2006

9:30am **Jeng-Daw Yu**, Queen's University
Special liftingss of ordinary $K3$ surfaces and applications

10:30am **Alina Cojocaru**, The Fields Institute and University of Illinois at Chicago
Frobenius fields for elliptic curves

11:30pm **Reinier Broker**, The Fields Institute
p-adic class invariants

12:30pm **Noriko Yui**, Queen's University
Quasimodular forms and mirror symmetry for elliptic curves

Afternoon **Discussions**