ARITHMETIC AND GEOMETRY OF HIGHER DIMENSIONAL VARIETIES

WITH SPECIAL EMPHASIS ON
CALABI–YAU VARIETIES AND MIRROR SYMMETRY

OCTOBER 23–24, 2004

The Fields Institute, 222 College Street, Toronto

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

PROGRAM

OCTOBER 23, 2004

10:00am   **James D. Lewis**, University of Alberta
        Real regulators of twisted Milnor complexes

11:15am   **Shabham Kadir**, The Fields Institute
        Zeta-functions of families of Calabi–Yau manifolds and mirror symmetry

12:30–2:00pm   **Lunch**

2:00pm   **Kenji Ueno**, Kyoto University
        On modular functors and conformal field theory

3:15pm   **Kai Behrend**, UBC/The Fields Institute
        On the cohomology rings of certain stable map spaces

4:45pm   **Andreas Rosenschon**, SUNY Buffalo
        On Rigidity

6:00pm   **Seminar dinner**

OCTOBER 24, 2004

9:30am   **Romyar Sharifi**, McMaster University
        Class groups through Bernoulli numbers and cup products

10:40am   **Manfred Herbst** , The Fields Institute
        A-infinity algebras in topological open string theory

11:50am   **Barbara Fantechi**, ICTP Trieste/The Fields Institute
        Quantum cohomology for orbifolds

Afternoon **Discussions**