

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

MARCH 6–7, 2010

The Fields Institute, 222 College Street, Toronto

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

MARCH 6, 2010

- 9:30am **Ling Long**, Iowa State University
Some results on supercongruences
- 10:30am **Bill Hoffman**, Louisiana State University
Tangents to Chow groups
- 11:30am **Kenichiro Kimura**, University of Tsukuba
Mixed elliptic motives
- 12:30pm–2:00pm **Lunch**
- 2:00pm **Abhijnan Rej**, The Fields Institute
Arithmetic geometry of attractor varieties
- 3:00pm **Andrey Novoseltsev**, University of Alberta
Searching for new Calabi–Yau threefolds
- 4:00pm **Doug Haessig**, University of Rochester
Variation of zeta functions and Sigma-modules
- 5:00pm **Normal Do**, McGill University
Lattice points in moduli spaces of curves
- 6:30pm **Workshop Dinner**

MARCH 7, 2010

- 9:30am **Tatyana Foth**, University of Western Ontario
Complex structures and the Teichmueller space
- 10:30am **Sheldon T. Joyner**, University of Western Ontario
An algebraic Knizhnik-Zamolodchikov equation
- 11:30pm **James Lewis**, University of Alberta
The Regulator Map on Voevodsky Motivic Cohomology
- Afternoon **Discussions**