

THE FIELDS INSTITUTE SEMINARS
ARITHMETIC AND GEOMETRY OF HIGHER DIMENSIONAL VARIETIES
WITH SPECIAL EMPHASIS ON
CALABI–YAU VARIETIES AND MIRROR SYMMETRY

March 22–23, 2003

The Fields Institute, 222 College Street, Toronto

Organized by Stefan Müller-Stach (McMaster) and Noriko Yui (Queen’s)

Program

March 22, 2003

10:00am **Chuck Doran**, Columbia University
A mathematical introduction to mirror symmetry

11:00am **Mike Roth**, Queen’s University
Mori’s bend and break theorem

12:00–2:30pm **Lunch**

2:30pm **Ramesh Sreekantan**, University of Toronto
Drinfeld modular curves and special values of L-functions

3:30pm **Yasuhiro Goto**, Hokkaido University of Education
Computations on Calabi–Yau threefolds in positive characteristic

5:00pm **Discussions**

6:00pm **Seminar dinner**

March 23, 2003

10:00am **Chuck Doran**, Columbia University
Integral structures and homological mirror symmetry

11:00am **James Lewis**, Edmonton
Abel–Jacobi maps for higher Chow groups

12:00am **Katia Consani**, University of Toronto
New perspectives on ∞ -adic Arakelov geometry

Afternoon **Discussions**