FIELDS

THEMATIC PROGRAM ON **CALABI-YAU VARIETIES: ARITHMETIC, GEOMETRY AND PHYSICS**

Workshop 3:
Physics around Mirror Symmetry

ORGANIZERS **Vincent Bouchard** (University of Alberta), **Jaume Gomis** (Perimeter Institute), **Sergei Gukov** (University of California, Santa Barbara), **Johannes Walcher** (McGill University), **Shing-Tung Yau** (Harvard University)

October 21–25, 2013

PERIMETER INSTITUTE, ROOM 400

This is a joint workshop with the Perimeter Institute.

PERIMETER INSTITUTE FOR THEORETICAL PHYSICS

This conference will discuss recent progress in the physics of mirror symmetry, a subject that has evolved in close relation with mathematical advances in the field of algebraic geometry, especially on Calabi-Yau varieties, leading to the genesis of many groundbreaking ideas.

This event will bring together leading physicists and mathematicians to discuss the various approaches to the subject, and to collaborate on the extraction of new mathematics from the improved understanding of the powerful physical theories.

CONFIRMED SPEAKERS

Gaetan Borot (MPIM Bonn)
Vincent Bouchard (University of Alberta)
Ricardo Cousa (University of Santiago de Compostela)
Emanuel Diaconescu (University of Alberta)
David Favero (University of Alberta)
Davide Gaiotto (Perimeter Institute)
Jaume Gomis (Perimeter Institute)
Kentaro Hori (Kavli IPMU, Tokyo)
Shamit Kachru (Stanford University)
Spiro Karigiannis (University of Waterloo)
Albrecht Klemm (University of Bonn)
Ilarion Melnikov (Albert Einstein Institute)
Takuya Okuda (Universiyt of Tokyo)
Callum Quigley (University of Alberta)
Savdeep Sethi (University of Chicago)
Yan Soibelman (Kansas State University)
Johannes Walcher (McGill University)

There will be a concentrated graduate course the week of October 7 at the Fields Institute prior to workshop 2 in preparation to workshops 2 and 3.

The schedule for the concentrated graduate course and for the workshop as well as titles and abstracts of talks will be posted on the Fields program webpage: www.fields.utoronto.ca/programs/scientific/13-14/calabi-yau

For more information, please visit:
www.perimeterinstitute.ca/conferences/physics-around-mirror-symmetry

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