

# RICCI CURVATURE AND RICCI FLOW

APRIL 14<sup>TH</sup> - JUNE 30<sup>TH</sup>, 2008

*A trimester at IHP - Centre Émile Borel  
Courses, workshops and seminars are planned*

## ORGANIZERS

GÉRARD BESSON (CNRS Grenoble) — JOHN LOTT (Ann Arbor) — GANG TIAN (Princeton)

## THE TOPICS OF THE TRIMESTER WILL INCLUDE

Ricci flow and the geometrization of three-manifolds  
Kähler-Einstein metrics, constant scalar curvature metrics and Kähler-Ricci flow  
Ricci flow on manifolds of dimension four and higher  
Analytic aspects of Ricci flow and related flows  
Einstein metrics and recent advances in relativity  
Ricci limit spaces and synthetic Ricci curvature

## SCHEDULED LONG COURSES

Introduction to Ricci curvature *by* S. GALLOT  
Introduction to the Ricci flow: the work of Hamilton in dimensions 3 and 4 *by* Z. DJADLI  
Introduction to Kähler-Einstein geometry and Kähler-Ricci flow *by* N. PALI  
Topology and geometry of 3-manifolds *by* S. MAILLOT  
Perelman's work and the geometrization conjecture *by* L. BESSIÈRES, G. BESSON, J. LOTT & S. MAILLOT  
Optimal transport of measures and Ricci curvature *by* D. CORDERO-ÉRAUSQUIN

*Several advanced courses will be announced later*

## WORKSHOPS

Ricci curvature and complex geometry — June 2<sup>nd</sup> - 6<sup>th</sup>, 2008  
Ricci flow and related topics — June 23<sup>rd</sup> - 27<sup>th</sup>, 2008

Those interested in participating in the program are invited to visit the Website [www.ihp.jussieu.fr](http://www.ihp.jussieu.fr)  
Registration is free but recommended.

Participation of postdocs and PhD students is strongly encouraged.

6 Marie-Curie fellowships (3 months each) will be attributed. The application form can be downloaded from [www.ihp.jussieu.fr](http://www.ihp.jussieu.fr)

For further information, contact the CEB organization assistant Claude Lucet: [ricci@ihp.jussieu.fr](mailto:ricci@ihp.jussieu.fr)

To receive updates of the scientific program of the session, send an email to [inforicci-request@ihp.jussieu.fr](mailto:inforicci-request@ihp.jussieu.fr) containing  
the single word *subscribe* (in the message body).