

« CONFORMAL AND KÄHLER GEOMETRY » Paris, September 10th – December 14th, 2012
Conference : « Recent Developments in Kähler Geometry » – December 10th – 14th, 2012 – Amphithéâtre Hermite



ORGANIZING COMMITTEE

Matthew GURSKY (Notre Dame University, USA), **Emmanuel HEBEY** (Université de Cergy Pontoise, France), **Franck PACARD** (École Polytechnique, France), **Jeff VIACLOVSKY** (University of Wisconsin, USA)

SPEAKERS

Vestislav Apostolov (Université du Québec à Montréal, Canada)
Robert Berman (Chalmers University, Sweden)
Xiuxiong Chen (Stony Brook University, USA)
Philippe Eyssidieux (Université Joseph Fourier, France)
Akito Futaki (University of Tokyo, Japan)
Slawomir Kolodziej (Jagiellonian University, Poland)
Xiaonan Ma (Université Pierre et Marie Curie, France)
Toshiki Mabuchi (Osaka University, Japan)

Sean Paul (University of Wisconsin, USA)
Mihai Paun (Université de Nancy, France)
Julius Ross (Cambridge University, England)
Yanir Rubinstein (University of Maryland, USA)
Yuji Sano (Kumamoto University, Japan)
Song Sun (Imperial College, England)
Ioana Suvaina (Vanderbilt University, USA)
Xiaohua Zhu (Beijing University, China)



PROGRAM

Monday December 10th

12.00 pm – 01.00 pm Registration and Welcome Coffee - Ground floor

01.00 pm – 02.00 pm	Xiuxiong Chen	Kähler Einstein metrics on Fano manifolds.
02.00 pm – 03.00 pm	Sean Paul	From Semi Stable Pairs to K-Energy maps of Algebraic Manifolds.
03.00 pm – 03.30 pm	Coffee break	
03.30 pm – 04.30 pm	Xiaonan Ma	Berezin-Toeplitz quantization and applications.
04.45 pm – 05.45 pm	Yuji Sano	Extremal metrics and lower bound of the modified K-energy.

Tuesday December 11th

09.30 am – 10.30 am	Robert Berman	Q-Fano varieties admitting Kähler-Einstein metrics are K-polystable.
10.30 am – 11.00 am	Coffee break	
11.00 am – 12.00 pm	Song Sun	Gromov-Hausdorff limits of Kähler manifolds and projective embeddings.
12.00 pm – 02.00 pm	Lunch	
02.00 pm – 03.00 pm	Philippe Eyssidieux	Kähler Einstein metrics on singular Fano varieties.
03.00 pm – 03.30 pm	Coffee break	
03.30 pm – 04.30 pm	Slawomir Kolodziej	Complex Hessian equations.

Wednesday December 12th

09.30 am – 10.30 am	Julius Ross	The Hele Shaw Flow and the Moduli of Holomorphic Discs.
10.30 am – 11.00 am	Coffee break	
11.00 am – 12.00 pm	Akito Futaki	Special Lagrangians and Lagrangian self-shrinkers in toric Calabi-Yau cones.

Thursday December 13th

09.30 am – 10.30 am	Mihai Paun	Semi-positivity results for relative adjoint transcendental classes and applications.
10.30 am – 11.00 am	Coffee break	
11.00 am – 12.00 pm	Yanir Rubinstein	Kähler-Einstein (edge) theory.
12.00 pm – 02.00 pm	Lunch	
02.00 pm – 03.00 pm	Xiaohua Zhu	Perelman's entropy and Kähler-Ricci flow on a Fano manifold.
03.00 pm – 03.30 pm	Coffee break	
03.30 pm – 04.30 pm	Toshiki Mabuchi	A version of Donaldson-Tian-Yau's conjecture for general polarization.

06.00 pm – 09.00 pm *Conference reception* **Location : Ground Floor lobby of IHP**

Friday December 14th

09.30 am – 10.30 am	Vestislav Apostolov	The extremal Kähler metrics of toric orbifold-surfaces with $b_2=2$.
10.30 am – 11.00 am	Coffee break	
11.00 am – 12.00 pm	Ioana Suvaina	ALE Ricci flat Kähler surfaces.