Conference: « Conformal and Kähler Geometry »
September 17th – 21st, 2012
Amphithéâtre Hermite

Organizers:
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:
Olivier Biquard (Université Pierre et Marie Curie, France)
Gilles Carron (Université de Nantes, France)
Alice Chang (Princeton University, USA)
Robin Graham (Washington University, USA)
Hans-Joachim Hein (Imperial College, UK)
Rafe Mazzeo (Stanford University, USA)
Aaron Naber (MIT, USA)
Tristan Rivière (ETH Zürich, Switzerland)
Richard Schoen (Stanford University, USA)
Michael Singer (University of Edinburgh, UK)
Michael Struwe (ETH Zürich, Switzerland)
Gabor Szekelyhidi (University of Notre Dame, USA)
Peter Topping (University of Warwick, UK)
Gang Tian (Princeton University, USA)
Claire Voisin (École polytechnique, France)
Paul Yang (Princeton University, USA)
PROGRAM

Monday September 17th

01.00 pm – 02.00 pm  Registration and Welcome Coffee - Ground floor
02.00 pm – 03.00 pm  Claire Voisin  Some applications of the Lefschetz standard conjecture.
03.00 pm – 03.30 pm  Coffee break
03.30 pm – 04.30 pm  Paul Yang  Conformally invariant equations in CR geometry.
04.45 pm – 05.45 pm  Rafe Mazzeo  Crossing edges and Kähler-Einstein metrics.

Tuesday September 18th

09.30 am – 10.30 am  Olivier Biquard  Desingularization of Einstein orbifolds.
10.30 am – 11.00 am  Coffee break
11.00 am – 12.00 pm  Michael Singer  Boundary value problems for anti-self-dual Einstein metrics.

12.00 pm – 02.00 pm  Lunch

02.00 pm – 03.00 pm  Tristan Riviere  Global Gauges and the existence of Minimal Yang-Mills Fields in Super-critical dimensions
03.00 pm – 03.30 pm  Coffee break
03.30 pm – 04.30 pm  Gilles Carron  Stratified Yamabe problem.
04.45 pm – 05.45 pm  Hans-Joachim Hein  Calabi-Yau manifolds modeled on cones.
### Wednesday September 19th

- **09.30 am – 10.30 am** Alice Chang  
  Boundary regularity of Bach flat metrics.
- **10.30 am – 11.00 am** Coffee break
- **11.00 am – 12.00 pm** Robin Graham  
  New proof of Juhl's formulae for GJMS operators and Q-curvatures.

### Thursday September 20th

- **09.30 am – 10.30 am** Aaron Naber  
  Examples and Degeneracies of Manifolds with Ricci Curvature Bounds.
- **10.30 am – 11.00 am** Coffee break
- **11.00 am – 12.00 pm** Peter Topping  
  Asymptotics of the Teichmueller harmonic map flow.
- **12.00 pm – 02.00 pm** Lunch
- **02.00 pm – 03.00 pm** Richard Schoen  
  Metrics on surfaces which extremize eigenvalues.
- **03.00 pm – 03.30 pm** Coffee break
- **03.30 pm – 04.30 pm** Michael Struwe  
  Conformal metrics of prescribed Gauss curvature.
- **06.00 pm – 09.00 pm** Cocktail - IHP - Ground Floor

### Friday September 21st

- **09.30 am – 10.30 am** Gang Tian  
  Compactness theorems in Kähler geometry
- **10.30 am – 11.00 am** Coffee break
- **11.00 am – 12.00 pm** Gabor Szekelyhidi  
  Blowing up extremal Kähler manifolds.