

# Nanjing Workshop on Geometry and Analysis 2005

## Schedule

Sunday, June 12, 2005, Registration

Monday, June 13, 2005

**Chair:** Prof. Gang Tian and Prof. Xingwang Xu

9:00 Walking from the hotel to IMS. Jiaqiang Mei will wait at the hall of the hotel for participants till 9:00am, June 13, 2005

9:30-10:00 **Opening Ceremony**

(a) Prof. Jun Chen, *Vice President of Nanjing University*

(b) Prof. Jiangong You, *Head of the Mathematics Department, Nanjing University*

(c) Taking group photo for all participants

10:00-10:45 Prof. Weiyue Ding, *Peking University, China*  
Evolution of Minimal Torus in Riemannian Manifolds

11:00-11:45 Prof. Bo Guan, *Ohio-State University, USA*  
Complete hypersurfaces of constant curvature function in hyperbolic space

12:00 Lunch Break

**Chair:** Prof. Jianguo Cao

14:30-15:15 Prof. Xianzhe Dai, *UC Santa Barbara, USA*  
On the stability of Kahler-Einstein metrics

15:30-16:15 Prof. Weiping Zhang, *Nankai University, China*  
An  $L^2$  Alexander invariant for knots

16:15-16:45 Tea and discussion time

16:45-17:30 Prof. Igor Belegradek, *George Tech, USA*  
Towards prescribing the topology of cusps

18:00 Dinner

Tuesday, June 14, 2005

**Chair:** Prof. Weiyue Ding

- 9:00-9:45 Prof. Fred Xavier, *Notre Dame, USA*  
Recent progress in global injectivity
- 10:00-10:45 Prof. Changfeng Gui, *University of Conn, USA*  
Phase Transition, Minimal Surface and De Giorgi Conjecture
- 10:45-11:00 Tea time
- 11:00-11:45 Prof. Huaiyu Jian, *Tsinghua University, China*  
Ginzburg-Landau Vortex and Mean curvature flow without force
- 12:00 Lunch Break

**Chair:** Prof. Weiping Zhang

- 15:00-15:45 Prof. Jingyi Chen, *U. British Columbia, Canada*  
Recent progress on mean curvature flow in higher codimension
- 15:45-16:15 Tea and discussion time
- 16:15-17:00 Prof. Yibing Shen, *Zhejiang University, China*  
On complex Finsler geometry
- 18:00 Dinner

Wednesday, June 15, 2005

**Chair:** Prof. Yongbin Ruan

- 9:00-9:45 Prof. Gilles Carron, *Nantes, France*  
 $L^2$  cohomology of QALE spaces
- 10:00-10:45 Prof. Anmin Li, *Sichuan University, China*  
Relative Gromov-Witten Invariants and applications
- 10:45-11:00 Tea time
- 11:00-11:45 Prof. Xiaochun Rong, *Rutgers University, USA*  
Fundamental groups of positively curved manifolds with symmetry
- 12:00 Lunch Break

**Chair:** Prof. Huicheng Yin

15:00-15:45 Prof. Huijun Fan, *Peking University, China*  
Martin points on open manifolds of non-positive curvature

15:45-16:15 Tea and discussion time

16:15-17:00 Prof. Gregor Weingart, *Hamburg, Germany*  
Bochner identities for  $G_2$  and  $Spin_7$  manifolds

18:30 Conference Banquet at Ramada Plaza

Thursday, June 16, 2005

**Chair:** Prof. Fred Xavier

9:00-9:45 Prof. Luis Guijarro, *Madrid, Spain*  
Nonnegative curvature and twisted bundles

10:00-10:45 Prof. Shuguang Wang, *University of Missouri, USA*  
Orientability and degree of Fredholm maps via determinant bundles

10:45-11:00 Tea time

11:00-11:45 Prof. Jian Zhou, *Tsinghua University, China*  
Localization and dualities in string theory

12:00 Lunch Break

**Chair:** Prof. Xiaochun Rong

15:00-15:45 Prof. Hao Fang, *IAS, Princeton, USA*  
Analytic torsion on Calabi-Yau manifolds

15:45-16:15 Tea and discussion time

16:15-17:00 Prof. Nader Yeganefar, *Berlin, Germany*  
On manifolds with quadratic curvature decay

18:00 Dinner

Friday, June 17, 2005

**Chair:** Prof. Xianzhe Dai

- 9:00-9:45 Prof. Lei Ni, *UCSD, USA*  
Local regularity theorems for Ricci flow
- 10:00-10:45 Prof. Xinan Ma, *East China Normal University, China*  
The existence of convex body with prescribed curvature measure
- 10:45-11:00 Tea time
- 11:00-11:45 Prof. Xiaohua Zhu, *Peking University, China*  
Some functionals related to extremal metrics on toric manifolds
- 12:00 Lunch Break

**Chair:** Prof. Decheng Ding and Prof. Gang Tian

- 15:00-15:45 Prof. Jie Qing, *UC Santa Cruz, USA*  
On the uniqueness of the foliation of spheres of constant mean curvature in asymptotically flat 3-manifolds
- 15:45-16:15 Tea and discussion time
- 16:15-17:00 Prof. Jiaping Wang, *University of Minnesota, USA*  
Poincare inequality and topology
- 18:00 Dinner

Saturday, June 18, 2005: sightseeing

Sunday, June 19, 2005: departure

**Remarks:**

Please carry out all necessary paperwork with Ms. Jinhe Cheng between talks as soon as possible. She will handle all the monetary issues for our conference, and reserve or purchase air/train/bus tickets for your departure.

Ms. Jinhe Cheng is the person you must see during the workshop.