

November 20, 2003
Thursday

Opening Remarks

9:05 **Ngaiming Mok**, Director, Institute of Mathematical Research

9:10 **Stephen S.T. Yau**, UI Chicago, USA

Chair: N. Mok, HKU

9:15 – 10:05 **Duong H. Phong**, Columbia U., USA
Complex geometry in string perturbation theory

10:15 – 11:05 **Ke Wu**, Capital Normal U., China
Global solutions of Einstein-Dirac equation on the conformal space

Tea Break

11:25 – 12:15 **Song-Ying Li**, UC Irvine, USA
Problems related to eigenvalues of sub-Laplacian on pseudo-hermitian manifolds

Lunch Break

Chair: P.P.W. Wong, HKU

14:00 – 14:50 **John E. Fornæss**, U. Michigan, USA
Orbits of complex Henon maps

15:00 – 15:50 **Yuefei Wang**, CAS, China
Results on the iteration of holomorphic maps

Tea Break

16:10 – 17:00 **Xiangyu Zhou**, CAS, China
 L^2 method and group action

November 21, 2003
Friday

Chair: X. Sun, HKU

9:15 – 10:05 **James Carlson**, CMI & U. Utah, USA
Volume of the space of real cubic surfaces

10:15 – 11:05 **Sai-Kee Yeung**, Purdue U., USA
Aspects of rigidity and its implications

Tea Break

11:25 – 12:15 **Kang Zuo**, CUHK, Hong Kong
Families over curves with a strictly maximal Higgs field

Lunch Break

Chairs: H.S. Luk, CUHK & J. Zhang, Fudan U.

14:00 – 14:40 **Andreea Nicoara**, Harvard U., USA
Closed range and embeddability for 3-dimensional CR manifolds

14:50 – 15:30 **Tuen-Wai Ng**, HKU, Hong Kong
Permutable entire functions and their Julia sets

Tea Break

15:50 – 16:30 **Dror Varolin**, UI Urbana-Champaign, USA
 L^2 interpolation and sampling

16:40 – 17:20 **Zehua Zhou**, Tianjin U., China
Weighted composition operators between different Bloch-type spaces in polydiscs

November 22, 2003
Saturday

Chair: W.S. Cheung, HKU

9:15 – 10:05 **Sheng Gong**, USTC, China
The decomposition theorems of convex mappings in several complex variables

10:15 – 11:05 **Jeffrey McNeal**, Ohio State U., USA
Twisted estimates on the Cauchy-Riemann equations

Tea Break

11:25 – 12:15 **Der-Chen Chang**, Georgetown U., USA
Geometric analysis on a family of sub-Riemannian manifolds

Lunch Break

Chair: H. Yang, CAS

14:00 – 14:50 **Emil Straube**, Texas A. & M., USA
Geometric conditions which imply compactness of the $\bar{\partial}$ -Neumann operator

15:00 – 15:50 **Mei-Chi Shaw**, U. Notre Dame, USA
Estimates for the $\bar{\partial}$ -Neumann problem and nonexistence of Levi-flat hypersurfaces in CP^n

Tea Break

16:10 – 17:00 **Ngaiming Mok**, HKU, Hong Kong
Holomorphic vector fields on Fano manifolds

November 23, 2003
Sunday

Chair: M. Chen, Fudan U.

9:15 – 10:05 **Lawrence Ein**, UI Chicago, USA
Log canonical thresholds and birational rigidity

10:15 – 11:05 **Shengli Tan**, East China Normal U., China
Effective behavior of multiple linear systems

Tea Break

11:25 – 12:15 **Weiping Li**, HKUST, Hong Kong
Stable vector bundles on some Calabi-Yau 3-folds

Lunch Break

Chairs: T.W. Ng, HKU & Y.K. Lau, HKU

14:00 – 14:40 **Samuel Grushevsky**, Princeton U., USA
Addition formulae, multisections, and the hyperelliptic locus

14:50 – 15:30 **Gordon Heier**, Harvard U., USA and Bochum U., Germany
An effective uniform bound for the Shafarevich Conjecture over function fields

Tea Break

15:50 – 16:30 **Zhenhan Tu**, Wuhan U., China
Rigidity of proper holomorphic mappings between bounded symmetric domains

16:40 – 17:20 **Bruno de Oliveira**, U. Miami, USA
Semi-negative bundles and the Shafarevich conjecture

November 24, 2003
Monday

Chair: W. Yin, CNU

9:15 – 10:05 **Stephen S.T. Yau**, UI Chicago, USA
Characterization of affine varieties being cones over nonsingular projective manifolds and sharp estimate of integral points in real tetrahedron

10:15 – 11:05 **Lei Ni**, UC San Diego, USA
Sharp dimension counting on holomorphic functions of polynomial growth

Tea Break

11:25 – 12:15 **Xiaojun Huang**, Rutgers U., USA
A survey on some rigidity problems in CR Geometry

Lunch Break

Chair: S.-K. Yeung, Purdue U.

14:00 – 14:50 **Mark de Cataldo**, SUNY Stonybrook, USA
The Hodge theory of algebraic maps

15:00 – 15:50 **Xiaotao Sun**, HKU, Hong Kong
Minimal rational curves on moduli spaces of stable bundles

Tea Break

16:10 – 17:00 **Hing-Sun Luk**, CUHK, Hong Kong
Holomorphic deRham cohomology of strongly pseudoconvex CR manifolds with S^1 actions

17:00 **Man Keung Siu**, Head, Department of Mathematics
Closing Remarks