Non-Linear Methods in Complex Geometry

date: **November 11–14, 2005**

place: **West 9 Building, 2nd floor Digital Multi-Purpose Hall, Tokyo Institute of Technology, O-okayama, Meguro, Tokyo.**

PROGRAM

Friday, November 11, 2005

10:55–11:00 **Opening Address**

11:00–12:00 H. Tsuji (Sophia Univ.)
Variation of Bergman Kernels and its applications

13:30–14:30 R. Bielawski (Edinburgh Univ.)
Kähler metrics on complexified symmetric spaces

15:00–16:00 A. Sergeev (Steklov Math. Inst., Moskow)
Seiberg-Witten equations on the non-commutative Euclidean 4-space

Saturday, November 12, 2005

9:30–10:30 K. Sugiyama (Chiba Univ.)
On a geometric non-abelian class field theory and an application to threefolds

11:00–12:00 O. Sheinman (Steklov Math. Inst., Moskow)
Krichever-Novikov algebras and Knizhnik-Zamolodchikov connection for positive genera

13:30–14:30 R. Miyaoka (Kyushu Univ.)
Extension of Osserman's theorem on the Gauss map of algebraic minimal surfaces

15:00–16:00 A.L. Gorodentsev (ITEP & IUM)
TBA

Sunday, November 13, 2005

9:30–10:30 M. Tsukamoto (Kyoto Univ.)
Infinite energy Yang-Mills gauge theory

11:00–12:00 L. Charles (Paris 6 Univ.)
Toepliz operators and torus action

13:30–14:30 H. Iritani (Kyoto Univ.)
Convergence of quantum cohomology by quantum Lefschetz

15:00–16:00 Y. Maeda (Keio Univ.)
Deformation quantizations and gerbes

Tuesday, November 14, 2005

9:30–10:30 X.-X. Chen (Univ. of Wisconsin, Madison)
On the lower bound of calabi energy

11:00–12:00 M. Schlichenmaier (Univ. of Luxembourg)
Asymptotic expansion of the Berezin transform for compact Kähler manifolds

13:30–14:30 M. Bordemann (Univ. of Haute Alsace)
Quantization of Poisson maps

The 5th International Conference
by Graduate School of Mathematics, Nagoya University

Geometric Quantization and Related Complex Geometry

date: **November 16–19, 2005**
place: **Noyori Conference Hall, Nagoya University**

PROGRAM

Wednesday, November 16, 2005

9:25–9:30 **Opening Address**

9:30–10:30 X.-X. Chen (Univ. of Wisconsin, Madison)
On the lower bound of calabi energy

11:00–12:00 W. Zhang (Nankai Univ.)
Two themes in geometric quantization

13:30–14:30 K. Sugiyama (Chiba Univ.)
On a geometric non-abelian class field theory and an application to threefolds

15:00–16:00 P. Heinzner (Bochum Univ.)
Semistable points with respect to real forms

Thursday, November 17, 2005

9:30–10:30 T. Moriyama (Osaka Univ.)
Pre-symplectic geometry and the construction of pre-symplectic submanifolds

11:00–12:00 L. Charles (Paris 6 Univ.)
On the semi-classical naturality of quantization with half-form

13:30–14:30 R. Kobayashi (Nagoya Univ.)
Toward Nevanlinna/Galois theory of the Gauss map

15:00–16:00 R. Bielawski (Edinburgh Univ.)
Asymptotic monopole metrics

Friday, November 18, 2005

9:30–10:30 A. Futaki (Tokyo Inst. of Tech.)
Harmonic total Chern forms and stability

11:00–12:00 C.-L. Wang (National Central Univ.)
Invariance of quantum corrected product under simple ordinary flops

13:30–14:30 J. Rawnsley (Warwick Univ.)
Natural star products

15:00–16:00 H. Upmeier (Univ. of Marburg)
Quantization of Symmetric Spaces, including Super-Symmetry

Saturday, November 19, 2005

9:30–10:30 M. Bordemann (Univ. of Haute Alsace)
Quantization of coisotropic submanifolds

11:00–12:00 T. Mabuchi (Osaka Univ.)
Stability on polarized algebraic manifolds