

# 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., Moscow)  
*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., Moscow)  
*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.)  
*Toeplitz 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. Upmeyer                (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*