

The 4th workshop "Complex Geometry and Lie Groups"

March 22-26, 2016, Nara-Osaka

Room G201, G-Hall, Nara Woman's University

PROGRAM

Tuesday, 22

09:00-10:00 REGISTRATION; 10:00-10:15 Opening Address

10:15-11:15 Claude LeBrun (1): *Mass in Kähler Geometry.*

11:30-12:30 Massimiliano Pontecorvo: *Bi-Hermitian metrics on Kato surfaces.*

12:30-14:00 Lunch Break

14:00-15:00 Sönke Rollenske: *Dolbeault cohomology of nilmanifolds with left-invariant complex structure.*

15:15-16:15 Gueo Grantcharov: *Algebraic dimension of complex nilmanifolds.*

16:15-16:45 Coffee Break

16:45-17:30 Casey Kelleher: *Singularity Formation of the Yang-Mills Flow.*

17:45-18:30 Shinichiroh Matsuo: *The twisted Seiberg-Witten equations and the Yamabe invariant.*

Wednesday, 23

09:00-10:00 Jeff Streets: *Generalized Kähler-Ricci flow and nondegenerate generalized Kähler surfaces.*

10:15-11:15 Marco Gualtieri: *Holomorphic Poisson geometry and generalized Kähler structures.*

11:30-12:30 Ryoichi Kobayashi: *Free Fuchsian groups in classical minimal surface theory.*

12:30-14:00 Lunch Break

14:00-15:00 Claude LeBrun (2): *The Einstein-Maxwell Equations and Conformally Kähler Geometry.*

15:15-16:15 Toshiki Mabuchi: *The Donaldson-Tian-Yau Conjecture for general polarizations.*

16:15-16:45 Coffee Break

16:45-17:30 Hassan Jolany: *Logarithmic Weil-Petersson metric on moduli space of log Calabi-Yau varieties.*

17:45-18:30 Daisuke Tarama: *Some double fibrations arising from quadric line complexes.*

Thursday, 24

09:00-09:45 Kenta Hayano: *Topology of holomorphic Lefschetz pencils on the four-torus.*

10:00-10:45 Leonardo Biliotti: *Stability of measures on Kähler manifolds.*

11:00-11:45 Xin Dong: *Boundary asymptotics of the relative Bergman kernel metric for hyperelliptic curves and Jacobians.*

12:00-12:45 Shinnosuke Okawa: *Compact moduli of marked noncommutative del Pezzo surfaces.*

12:45-14:00 Lunch Break

Excursion in the afternoon and Party in the evening

Friday, 25

09:00-10:00 Katrin Leschke: *Quaternionic Holomorphic Geometry.*

10:15-11:15 Yusuke Sakane: *Einstein metrics on compact homogeneous spaces.*

11:30-12:30 Takao Akahori: *Partially integrable almost CR structures.*

12:30-14:00 Lunch Break

14:00-15:00 Luigi Vezzoni: *The Calabi-Yau problem in torus bundles and generalized Monge-Ampère equations.*

15:15-16:15 Hisashi Kasuya: *Extensions of Nomizu's Theorem.*

16:15-16:45 Coffee Break

16:45-17:30 Daniele Angella: *Special Hermitian metrics up to conformal changes on non-Kähler manifolds.*

17:45-18:30 Katsuhito Moriya: *Twistor lifts and factorization for conformal maps of a surface.*

Saturday, 26

09:00-10:00 Roger Bielawski: *Coadjoint orbits, slices, and hyperkähler metrics.*

10:15-11:00 Masanori Adachi: *Curvature restrictions for Levi-flat real hypersurfaces in complex projective planes.*

11:15-12:00 Alessandro Ottazzi: *Sard Theorem for the endpoint map in sub-Riemannian manifolds.*

12:00-12:15 Closing Address

Excursion: On Thursday 24, we meet in front of the university main gate at 1:45 PM for excursion. We will have English guides. We visit Todai-ji, Kasuga-taisha, Kofuku-ji, Himuro-jinja, Nara-prefectural Office; and after the excursion (around 5:30 PM) we go directly to Hotel Fujita for party. The cost is ¥2,000 including all entrance fees to the temples and shrines.

Social Dining: In the evening of Thursday 24, we will have a social dining at Hotel Fujita, Room "Fuji-no-ma". It starts at 6:30 PM, and the cost is ¥6,000 to be paid at the hotel.

Workshop Organizers: Anna Fino, Ryushi Goto, Keizo Hasegawa, Jun-ichi Matsuzawa & Department of Mathematics, Nara Woman's University