

Niigata Workshop on Complex Geometry and Singularities

Dates : August 20 - 25, 2007

Place : CrossPal Niigata, Niigata Japan

Organizers : J.-P. Brasselet (IML, Marseille), K. Hasegawa (Niigata University), T. Ohmoto (Hokkaido University), T. Suwa (Niigata University, Chair), S. Tajima (Niigata University)

Program :

August 20 (Monday)

13:00- Registration

13:30 - 14:30 J.-P. Brasselet (IML, Marseille)

Characteristic classes along the Japanese singularity road

14:45 - 15:45 T. Ohmoto (Hokkaido University)

Computing Milnor numbers via Thom polynomials

16:00 - 17:00 T. Suwa (Niigata University)

Localization of Atiyah classes

August 21 (Tuesday)

9:30 - 10:30 V. Blanloeil (Université de Strasbourg)

Alexander polynomials and cobordism of algebraic knots

10:45 - 11:45 N. A'Campo (Universität Basel)

TQFT monodromy of plane curve singularities

13:30 - 14:30 V. Cortès (Universität Hamburg)

Aspherical Kähler manifolds with solvable fundamental group

14:45 - 15:45 K. Hasegawa (Niigata University)

Complex and pseudo-Kähler structures on compact homogeneous manifolds

16:00 - 17:00 T. Ohsawa (Nagoya University)

Levi flatness in pseudoconvex geometry

August 22 (Wednesday)

9:30 - 10:30 J. Schürmann (Universität Münster)

Characteristic classes of singular spaces and mixed Hodge modules

10:45 - 11:45 M. Saito (RIMS, Kyoto University)

On b-function, spectrum, and multiplier ideals

August 23 (Thursday)

9:30 - 10:30 Y. Nakamura (Kinki University)

Two invariants of Reiffen's isolated singularity

10:45 - 11:45 S. Tajima (Niigata University)

- Computing Grothendieck local residues via Noether differential operators
13:30 - 14:30 S. Watanabe (Tokyo Institute of Technology)
Pair of algebraic sets and statistical hypothesis test
14:45 - 15:45 Y. Matsui (University of Tokyo) and K. Takeuchi (Tsukuba University)
Microlocal study of Lefschetz fixed point formulas
16:00 - 17:00 G. Gonzalez-Sprinberg (Université de Grenoble)
On Limits of tangent spaces for orbifolds singularities

August 24 (Friday)

- 9:30 - 10:30 T. Asume (University of Tokyo)
On the Julia-Fatou decomposition of complex codimension-one foliations
10:45 - 11:45 B. Teissier (Institut Mathématique de Jussieu)
On the semigroups of valuations of noetherian local rings
13:30 - 14:30 I. Shimada (Hokkaido University)
Rational double points on K3 surfaces
14:45 - 15:45 M. Vaquié (Université Paul Sabatier)
Characterization of algebraic spaces by their derived category (joint work with Bertrand Toën)
16:00 - 17:00 O. Riemenschneider (Universität Hamburg)
On elementary analytic proofs of the prime number theorem

Other plannings :

August 21 (Tuesday)

We plan to go to a traditional Niigata restaurant 「大橋屋」 (Ohashiya) for dinner, starting 18:30. The price is 6,000 yen per person. Please sign up at the registration desk on August 20, if you would like to join.

August 22 (Wednesday)

1. Photo taking at 12:00
2. Various activities will be planned for the afternoon.
3. We plan to go to the Beer Garden on top of the Niigata Grand Hotel, starting 18:30. The price is 5,000 yen per person for all you can eat and drink. Please sign up at the registration desk on August 20, if you would like to join.

August 25 (Saturday)

We plan a bus tour, if there are enough people who are interested, with the following proposed schedules:

Hotel Okura (around 9:30) → Sakata Bird Sanctuary, Herb Garden → Lunch at Cave d'Occi Winery → Sea Coast → Mount Yahiko → Yahiko Shrine → Hotel Okura (around 16:00)

The price will be around 3,000 yen (not including lunch). Please sign up at the registration desk on August 20, if you would like to join this event.