

Singularities in Geometry and Topology

Dates : July 6 - 10, 1998

Place : Hokkaido University Conference Hall, Sapporo Japan

Organizers : Jean-Paul Brasselet (IML), jpbr@iml.univ-mrs.fr

Tatsuo Suwa (Hokkaido University),

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Program :

July 6 (Monday)

9:00 - Registration

9:30 - 10:30 M. Oka (Tokyo Metropolitan University)

On dual curves and dual singularities

10:45 - 11:45 Ph. Maisonobe (Université de Nice)

Polynômes de Bernstein associés à plusieurs fonctions

13:30 - 14:30 A. Campillo (Universidad de Valladolid)

On the geometry of invariant curves by singular foliations on algebraic varieties

14:45 - 15:45 H. Tokunaga (Kochi University)

On a condition for the fundamental group of the complement to a plane curve to be non-abelian

16:00 - 17:00 B. Teissier (ENS, Paris)

The reduced Bautin index of a planar vector field

July 7 (Tuesday)

9:30 - 10:30 P. Aluffi (Florida State University)

Invariants of singularities and characteristic classes of hypersurfaces

10:45 - 11:45 P. Pragacz (Polish Academy of Sciences)

Characteristic classes of hypersurfaces and characteristic cycles

13:30 - 14:30 D. Lehmann (Université de Montpellier)

Théorie de Chern-Weil pour les classes de Milnor

14:45 - 15:45 S. Yokura (Kagoshima University)

Bivariant constructible functions and some problems

16:00 - 17:00 I. Nakai (Hokkaido University)

Naturality of Stiefel-Whitney homology classes

July 8 (Wednesday)

9:30 - 10:30 J.-P. Brasselet (IML)

Classes de Mather et homologie d'intersection

10:45 - 11:45 T. Suwa (Hokkaido University)
 Characteristic classes of coherent sheaves on singular varieties

July 9 (Thursday)

- 9:30 - 10:30 T. Kohno (University of Tokyo)
 Conformal block monodromy of plane curve singularities
- 10:45 - 11:45 M. Merle (Université de Nice)
 Variétés caractéristiques de \mathcal{D} -modules et singularités
- 13:30 - 14:30 H. Nakajima (Kyoto University)
 McKay correspondence - crepant resolution of quotient singularities and group representations
- 14:45 - 15:45 K. Saito (RIMS)
 Elliptic root system and elliptic L-function
- 16:00 - 17:00 F. Loeser (Ecole Polytechnique)
 Motivic integration and motivic vanishing cycles

July 10 (Friday)

- 9:30 - 10:30 V. Blanloie (Université de Strasbourg)
 A theory of cobordism for non-spherical links
- 10:45 - 11:45 O. Saeki (Hiroshima University)
 Finiteness results for knots and singularities
- 13:30 - 14:30 G. Gonzalez-Sprinberg (Université de Grenoble)
 Generalized Enriques diagrams
- 14:45 - 15:45 S. Ishii (Tokyo Institute of Technology)
 Some boundedness of automorphisms on log-canonical singularities
- 16:00 - 17:00 Lê Dũng Tráng (Université de Provence)
 Geometry of normal singular surfaces