

HAYASHIBARA FORUM on "SINGULARITIES"
20-23 November 2006

Program

Monday, November 20

- 10h-11h Heisuke Hironaka (Kyoto)
 "A Program for Resolution of Singularities in all
 Characteristic and in all Dimensions"
- 11h30-12h30 Patrick Popescu-Pampu (Université Paris VII)
 "The Geometry of Continued Fractions and
 the Topology of Singularities"
- 14h-16h Sessions parallèles
14h-16h A Hiroshi Iritani (Kyushu University)
 "On a global structure of quantum cohomology
 D-modules"
 Masayoshi Watanabe (Tohoku University)
 "Ends of metric measure spaces with nonnegative
 Ricci curvature"
 Masatomo Takahashi (Hokkaido University)
 "A relationship between caustics and big wave fronts"
 Kentaro Saji (Hokkaido University)
 "Koenderink type theorems for fronts"
- 16h30-17h30 Shyuichi Izumiya (Hokkaido University)
 "Horospherical Geometry in Hyperbolic Space"
- 17h30-18h30 Adam Parusinski (Université d'Angers)
 "On Equivalence Relations of Real Analytic
 Function Germs"

Tuesday, November 21

- 9h-10h Shihoko Ishii (Tokyo Institute of Technology)
 "Arcs and Divisors"
- 10h30-11h30 Ilya Itenberg (Université Louis Pasteur)
 "Tropical Geometry and Welschinger Invariants"

- 11h30-12h30 Francois Loeser (École Normale Supérieure)
“Arc Spaces and the Milnor Fiber”
- 15h-16h Tomohiro Harada (Rikkyo University)
“Singularities and Self-Similarity in Gravitational Collapse”
- 16h30-17h30 Kyoji Saito (RIMS, Kyoto University)
“Towards a Categorical Construction of Lie Theory”

Wednesday, November 22

- 9h-10h Jean-Philippe Rolin (Universite de Bourgogne)
“Resolution of Singularities and Tame Geometry”
- 10h30-11h30 Takao Yamaguchi (University of Tsukuba)
“An Upper Curvature Bound and Singularities”
- 11h30-12h30 Anne Pichon (Universite de la Mediterranee)
“Principal Analytic Link Theory in Surface Singularity Links”
- 14h-15h Yosef Yomdin (Weizmann Institute of Science)
“Normal Forms of Singularities in Constructive Data Approximation”
- 15h30-16h30 Mikio Furuta (University of Tokyo)
“Pontrjagin–Thom Construction and non-Linear Fredholm Theories”

Thursday, November 23

- 9h-10h Yoshie Sugiyama (Tsuda College)
“Blow-Up in Keller–Segel Model”
- 10h30-11h30 Sergiu Klainerman (Princeton University)
“A Break-Down Principle for the Einstein Vacuum Equations”
- 11h30-12h30 Michael Berry (Bristol University)
“The Singularities of Light: Intensity, Phase, Polarization”