Singularity theory and its applications

RIMS

RIMS-Sing 1 Workshop

- Date : October 3rd (Monday), 2022 October 5th (Wednesday), 2022
- Venue : Room 420, Research Institute for Mathematical Sciences, Kyoto University, Japan.
- HP: http://www.math.kobe-u.ac.jp/HOME/saji/math/conf2022/spmon/index.html

[Program]

October 3rd

10:30-10:40	Opening
10:40-11:30	Takashi Nishimura (Yokohama National University) What is an envelope created by a line family in the plane?
13:30-14:20	Goo Ishikawa (Hokkaido University) Legendre singularities of sub-Riemannian geodesics
14:40-15:30	Maciej Denkowski (Jagiellonian University) [Zoom] Medial axes and singularity theory
15:50-16:40	Tomasz Pełka (Basque Center for Applied Mathematics) [Zoom] Equimultiplicity of μ -constant families
October 4th	
9:30-10:20	Victor Goryunov (University of Liverpool) [Cancel] Families of skew-symmetric matrices of even size
10:40-11:30	Naoki Kitazawa (Kyushu University) [Zoom] Round fold maps and construction of ones on some manifolds
13:30-14:20	Naomichi Nakajima (Hokkaido University) Information geometry from singularity theory viewpoint
14:40-15:30	Maxim Laurentiu (University of Wisconsin-Madison) [Zoom] Singularities and Optimization
15:50-16:40	Miruna-Stefana Sorea (SISSA) [Zoom]

October 5th

9:30-10:20	Sanchez Quiceno Eder Leandro (ICMC, USP) [Zoom]
	Topology of mixed polynomials with
	a Newton inner non-degenerate boundary
10:40-11:30	Piotr Mormul (University of Warsaw)
	Weak and strong nilpotency of geometric distributions
13:30-14:20	Kyoya Hashibori (Hokkaido University)
	Gauss-Bonnet type theorems for front bundles and their applications
14:40-15:30	Yanlin Li (Hangzhou Normal University) [Zoom]
	Evolutoids and pedaloids of curves from viewpoint
	of singularity theory and envelope theory
15:50-16:40	Victor Goryunov (University of Liverpool) [Zoom]
	Families of skew-symmetric matrices of even size

* All times are Japan Standard Time (JST).

Videos in HP during the period of the workshops RIMS-Sing 1 to RIMS-Sing 4:

- Shinichi Tajima (Niigata University)
 A deterministic method for computing Chern-Schwartz-MacPherson classes of a family of singular projective varieties with deformation parameters
- Masato Tanabe (Hokkaido University)
 Structure of orbit spaces of definable groupoids
- Kerner Dmitry (Ben-Gurion University of the Negev)
 Characteristic-free approach to left-right equivalence of Maps((kⁿ, o), (k^p, o))

Organizers:

Kentaro Saji (Kobe University),

Masatomo Takahashi (Muroran Institute of Technology),

Minoru Yamamoto (Hirosaki University),

Takahiro Yamamoto (Tokyo Gakugei University),

Kaoru Ono (Kyoto University, Research Institute for Mathematical Sciences).