Singularity theory of differential maps and its applications

RIMS Workshop



Date: December 6th (Tuesday), 2016 – December 9th (Friday), 2016

Room 111, Research Institute for Mathematical Sciences, Kyoto University, Japan.

HP: http://www.mmm.muroran-it.ac.jp/~masatomo/suurikenn2016e.html

[Program]	
December 6th	
13:00-13:45	Goo Ishikawa (Hokkaido University) Null frontal singular surfaces in Lorentzian 3-spaces
14:00-14:45	Tatsuya Yamashita (Hokkaido University) Differentiable rings, analytic rings, Nash rings and their applications to singularity theory
15:15-16:00	Yu Haiou (Northeast Normal University) Envelopes of Legendre curves in the unit spherical bundle
16:15-17:00	Shun'ichi Honda (Hokkaido University) Spherical framed curves and its applications
December 7th	
9:45-10:30	Huhe Han (Yokohama National University) Self-dual Wulff shapes and spherical convex bodies of constant width $\frac{\pi}{2}$
10:45-11:30	Minoru Yamamoto (Hirosaki University) Construction of fold map of lens space L(p,1) where singular set is a torus
13:00-13:45	Yoshihito Kohsaka (Kobe University) Stability of Delaunary surfaces as steady states for a geometric evolution equation
14:00-14:45	Tomonori Fukunaga (Kyushu Sangyo University) Framed surfaces and singularities
15:15-16:00	Liang Chen (Northeast Normal University) On geometry of Bertrand curves in 3-space form
16:15-17:00	Shyuichi Izumiya (Hokkaido University)

Geometric equivalence among section-germs of vector bundles

December 8th

9:45–10:30 Kaihang Fang (Hokkaido University)
On duality between horocyclic surfaces and de Sitter horocyclic surfaces

10:45–11:30 Yosihiko Aoto (Tokyo Institute of Technology)
Horocyclic evolutoids

13:00–13:45 Jean-Baptiste Campesato (Saitama University)
On a motivic invariant of the arc-analytic equivalence

14:00–14:45 Karim Bekka (Université de Rennes 1)
Determinacy of non-isolated singularities

15:15–16:00 Naohiko Kasuya (Aoyama Gakuin University)
Knots and links of complex tangents

16:15–17:00 Osamu Saeki (Kyushu University)
A Vassiliev type invariant of order one for stable maps of 3-manifolds into surfaces

December 9th

9:45–10:30 Shunsuke Ichiki (Yokohama National University)

Preservation of immersed or injective properties
by composing generic generalized distance-squared mappings

10:45–11:30 Asahi Tsuchida (Hokkaido University)

The theory of generalized Hamiltonian systems and its applications to geometric control theory and sub-Riemannian geometry

11:45–12:30 Masaru Hasegawa (Iwate Medical University)
On umbilics on newly born surfaces

Organizers: Masatomo Takahashi (Muroran Institute of Technology)
Takahiro Yamamoto (Kyushu Sangyo University)

^{*}A party will be held on December 7th.