研究集会「特異点論の展開」
Extension of the Singularity theory

日時: 2023 年 11 月 27 日 – 2023 年 11 月 29 日
会場: 京都大学数理解析研究所 111 号室
HP : https://www2.akita-nct.ac.jp/kasedou/workshop/rims2023/indexj.html (日本語)
https://www2.akita-nct.ac.jp/kasedou/workshop/rims2023/index.html (英語)

プログラム

11 月 27 日 (月)

9:50 – 10:30　田島 慎一 (新潟大学フェロー / 東京理科大学)
多項式函数の bifurcation set の計算法 II (鍋島克輔と共同)

10:40 – 11:20　北澤 直樹 (九州大学マス・フォア・インダストリ研究所 / 大阪公立大学数学研究所) [Zoom]
Special generic maps on closed and simply-connected manifolds of dimension 6

11:30 – 12:10　Laurentiu Paunescu (University of Sydney)
Zariski's dimensionality type of singularities. Case of dimensionality type 2 (joint with Adam Parusiński)

13:40 – 14:20　山本 卓宏 (東京学芸大学)
Surfaces formed by one-patameter families of parabolas in $\mathbb{R}^3$ (joint work with Nobuko Takeuchi)

14:30 – 15:10　平松 篤樹 (埼玉大学理工学研究科)
Versality of the folding family

15:20 – 16:00　石川 剛郎 (北海道大学理学研究院)
Singular curves of (3, 5) distributions

16:10 – 16:50　韓 呼和 (西北農林科技大学)
On the spherical polytopes pair separated by spherical polytope

11 月 28 日 (火)

9:00 – 9:40 　 山内 優太 (横浜国立大学)
Fenchel's theorem for wave fronts

9:50 – 10:30 　 服部 祐樹 (横浜国立大学)
Bour's theorem for helicoidal surfaces with singularities

10:40 – 11:20 　 梅原 雅顕 (東京工業大学, 数理・計算科学系)
実解析写像の像の解析的拡張の可能性の判定と応用

11:30 – 12:10 　 小林 真人 (秋田大学)
An elementary reproof of Fabricius Bjerre theorem for polygons

13:40 – 14:20 　 佐久間 一浩 (近畿大学) [Zoom]
Fold maps on complex projective spaces

14:30 – 15:10 　 林 弘幸 (神戸大学大学院理学研究科)
Geometry on curves passing through Whitney umbrella

15:20 – 16:00 　 島田 瑠奈 (神戸大学大学院理学研究科)
S_1 特異点の変形の幾何学

16:10 – 16:50 　 西村 尚史 (横浜国立大学)
Problems related to creative conditions on envelopes

11 月 29 日 (水)

9:00 – 9:40 　 中津山 希 (室蘭工業大学)
On vertices of frontals in the Euclidean plane

9:50 – 10:30 　 岩倉 康樹 (九州大学マスフォアイノベーション連係学府)
Non-singular extensions of circle-valued Morse functions

10:40 – 11:20 　 裴 東河 (東北師範大学)
Null type surfaces in Minkowski 3-space

Extension of the Singularity theory

Date: November 27th, 2023 – November 29th, 2023

Venue: Room 111, Research Institute for Mathematical Sciences,
Kyoto University, Japan

HP : https://www2.akita-nct.ac.jp/kasedou/workshop/rims2023/index.html

[Program]

November 27th (Monday)

9:50 – 10:30 Shinichi Tajima (Niigata University)
Algorithm for computing bifurcation set of a complex polynomial map
(joint work with Kasusuke Nabeshima)

10:40 – 11:20 Naoki Kitazawa (Institute of Mathematics for Industry, Kyushu University /
Osaka Central Advanced Mathematical) [Zoom]
Special generic maps on closed and simply-connected manifolds of dimension 6

11:30 – 12:10 Laurentiu Paunescu (University of Sydney)
Zariski's dimensionality type of singularities. Case of dimensionality type 2
(joint with Adam Parusiński)

13:40 – 14:20 Takahiro Yamamoto (Tokyo Gakugei University)
Surfaces formed by one-patameter families of parabolas in $\mathbb{R}^3$
(joint work with Nobuko Takeuchi)

14:30 – 15:10 Atsuki Hiramatsu (Saitama University)
Versality of the folding family

15:20 – 16:00 Goo Ishikawa (Faculty of Sciences, Hokkaido University)
Singular curves of (3, 5) distributions

16:10 – 16:50 Huhe Han (Northwest A&F University)
On the spherical polytopes pair separated by spherical polytope

November 28th (Tuesday)

9:00 – 9:40   Yuta Yamauchi (Yokohama National University)
Fenchel's theorem for wave fronts

9:50 – 11:30   Yuki Hattori (Yokohama National University)
Bour's theorem for helicoidal surfaces with singularities

10:40 – 11:20   Masaaki Umehara (Department of Mathematical and Computing Science, Tokyo Institute of Technology)
Unextendability of real analytic map images and its application

11:30 – 12:10   Mahito Kobayashi (Akita University)
An elementary reproof of Fabricius Bjerre theorem for polygons

13:40 – 14:20   Kazuhiro Sakuma (Kindai University) [Zoom]
Fold maps on complex projective spaces

14:30 – 15:10   Hiroyuki Hayashi (Department of Mathematics, Graduate School of Science, Kobe University)
Geometry on curves passing through Whitney umbrella

15:20 – 16:00   Runa Shimada (Department of Mathematics, Graduate School of Science, Kobe University)
Geometry on deformations of the S_1 singularity

16:10 – 16:50   Takashi Nishimura (Yokohama National University)
Problems related to creative conditions on envelopes

November 29th (Wednesday)

9:00 – 9:40   Nozomi Nakatsuyama (Muroran Institute of Technology)
On vertices of frontals in the Euclidean plane

9:50 – 11:30   Koki Iwakura (Kyushu University Joint Graduate School of Mathematics for Innovation)
Non-singular extensions of circle-valued Morse functions

10:40 – 11:20   Donghe Pei (Northeast Normal University)
Null type surfaces in Minkowski 3-space