



「可微分写像の特異点論とその応用」

Singularity theory of differentiable maps and its applications

日時: 2025 年 11 月 26 日 – 2025 年 11 月 28 日

会場: 京都大学数理解析研究所 420 号室

HP: <https://www.fit.ac.jp/~fukunaga/conf/sing202511.html>

プログラム

11 月 26 日 (水)

- 9:30 – 10:10 西村 尚史 (横浜国立大学)
How to restore the normal form of cuspidal crosscap from its Legendre data
(joint work with Christian Munoz-Cabello and Raul Oset Sinha)
- 10:20 – 11:00 ~~Yongqiao Wang (Dalian Maritime University)~~
~~On envelopes of mixed curve families in the Minkowski plane~~
(本講演はキャンセルとなりました)
- 11:10 – 11:50 星野 西紀 (埼玉大学)
The criterion for $\mathcal{A}$ -simple singularities of plane curves and its applications
- 13:20 – 14:00 石川 剛郎 (北海道大学)
(3, 6)-distributions viewed from singular curves
- 14:10 – 14:50 田邊 真郷 (北海道大学)
相対版・Herbert の多重点公式
- 15:00 – 15:40 田島 慎一 (新潟大学)
Holonomic D -modules と holomorphic map germs の特異点 II
- 15:50 – 16:30 泉 脩藏 (近畿大学)
特異点における位数関数

11月27日(木)

- 9:30 – 10:10 加藤 楽人 (日本大学)
3次元多様体から曲面への安定写像の構成について
- 10:20 – 11:00 岩倉 康樹 (九州大学)
Topology of boundary special generic maps
- 11:10 – 11:50 足立 二郎 (北海道大学)
接分布構造と多様体のトポロジーについて
- 13:20 – 14:00 Goulwen Fichou (レンヌ大学)
Regulous functions and seminormalization
- 14:10 – 14:50 早野 健太 (慶應義塾大学)
Constraint qualification for generic constraint map-germs in optimization problems
- 15:00 – 15:40 藪口 怜央 (岡山大学)
Knot surgered elliptic surfaces without 1- and 3-handles for a $(2, 2h + 1)$ -torus knot
- 15:50 – 16:30 佐伯 修 (九州大学)
On the number of components of folds of image simple fold maps

11月28日(金)

- 9:30 – 10:10 林 弘幸 (神戸大学)
Geometry of ruled surfaces with finite multiplicities
- 10:20 – 11:00 中津山 希 (室蘭工業大学)
Evolutes and involutes of framed curves in Euclidean 3-space
- 11:10 – 11:50 周 安杰 (東北師範大学 (室蘭工業大学))
Hyperbolic generalized framed surfaces in hyperbolic 3-space
- 13:20 – 14:00 佐治 健太郎 (神戸大学)
余階数2の束準同型の幾何
- 14:10 – 14:50 寺本 圭佑 (山口大学)
放物点を持つ曲面の焦面に現れるカस्प辺について
- 15:00 – 15:40 島田 瑠奈 (神戸大学)
Deformations of codimension two singularities and their geometric properties
- 15:50 – 16:30 山本 卓宏 (東京学芸大学)
Apparent contour of simplicial maps of closed surfaces into the plane

支援: ● RIMS 共同研究 (公開型)
● 科学研究費補助金基盤研究 (S)
「特異点論と幾何的トポロジーが織りなす数学イノベーション」
研究代表者: 佐伯修、課題番号: 23H05437

世話人: 福永 知則 (福岡工業大学), 一木 俊助 (東京科学大学)

Singularity theory of differentiable maps and its applications



Date: November 26th, 2025 – November 28th, 2025

Venue: Room 420, Research Institute for Mathematical Sciences,
Kyoto University, Japan

HP : <https://www.fit.ac.jp/~fukunaga/conf/sing202511.html>

[Program]

November 26th (Wednesday)

- 9:30 – 10:10 Takashi Nishimura (Yokohama National University)
How to restore the normal form of cuspidal crosscap from its Legendre data
(joint work with Christian Munoz-Cabello and Raul Oset Sinha)
- 10:20 – 11:00 ~~Yongqiao Wang (Dalian Maritime University)~~
~~On envelopes of mixed curve families in the Minkowski plane~~
(Canceled)
- 11:10 – 11:50 Saiki Hoshino (Saitama University)
The criterion for $\mathcal{A}$ -simple singularities of plane curves and its applications
- 13:20 – 14:00 Goo Ishikawa (Hokkaido University)
(3, 6)-distributions viewed from singular curves
- 14:10 – 14:50 Masato Tanabe (Hokkaido University)
Relative version of the Herbert multiple-point formula
- 15:00 – 15:40 Shinichi Tajima (Niigata University)
Holonomic D -modules and singularities of holomorphic map germs II
- 15:50 – 16:30 Shuzo Izumi (Kindai University)
Order functions at a singularity

November 27th (Thursday)

- 9:30 – 10:10 Gakuto Kato (Nihon University)
On a construction of stable maps from 3-manifolds into surfaces
- 10:20 – 11:00 Koki Iwakura (Kyushu University)
Topology of boundary special generic maps
- 11:10 – 11:50 Jiro Adachi (Hokkaido University)
Topology of manifolds and some tangent distributions on these manifolds
- 13:20 – 14:00 Goulwen Fichou (Rennes University)
Regulous functions and seminormalization
- 14:10 – 14:50 Kenta Hayano (Keio University)
Constraint qualification for generic constraint map-germs in optimization problems
- 15:00 – 15:40 Reo Yabuguchi (Okayama University)
Knot surgered elliptic surfaces without 1- and 3-handles for a $(2, 2h + 1)$ -torus knot
- 15:50 – 16:30 Osamu Saeki (Kyushu University)
On the number of components of folds of image simple fold maps

November 28th (Friday)

- 9:30 – 10:10 Hiroyuki Hayashi (Kobe University)
Geometry of ruled surfaces with finite multiplicities
- 10:20 – 11:00 Nozomi Nakatsuyama (Muroran Institute of Technology)
Evolute and involute of framed curves in Euclidean 3-space
- 11:10 – 11:50 Anjie Zhou (Northeast Normal University (Muroran Institute of Technology))
Hyperbolic generalized framed surfaces in hyperbolic 3-space
- 13:20 – 14:00 Kentaro Saji (Kobe University)
Geometry of corank 2 bundle homomorphisms
- 14:10 – 14:50 Keisuke Teramoto (Yamaguchi University)
On cuspidal edges on focal surfaces of surfaces with parabolic points
- 15:00 – 15:40 Runa Shimada (Kobe University)
Deformations of codimension two singularities and their geometric properties
- 15:50 – 16:30 Takahiro Yamamoto (Tokyo Gakugei University)
Apparent contour of simplicial maps of closed surfaces into the plane

Sponsors: • RIMS Symposia (open)
• Grant-in-Aid for Scientific Research (S)
“Mathematical innovations woven by singularity theory and geometric topology”
Principal Investigator: Osamu Saeki, Project/Area Number : 23H05437

Organizers: Tomonori Fukunaga (Fukuoka Institute of Technology) ,
Shunsuke Ichiki (Institute of Science Tokyo)