

# Singularity Theory for Differentiable Maps and Related Topics

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June 5 – 7, 2014

Multi-Purpose Hall, Miyakonojo National College of Technology, Japan

URL: <http://www.kyusan-u.ac.jp/J/kougaku/th/yamamoto/Miyakonojo14.6/index-e.html>

## Program

### June 5 (Thursday)

9:30 –10:15

Yutaro Kabata ( Hokkaido University )

**Recognition of map-germs and applications**

10:30 –11:15

Masashi Yasumoto ( Kobe University )

**Discretization of surfaces with singularities**

11:30 –12:15

Takashi Nishimura ( Yokohama National University )

**Aperture of plane curves**

13:30 –13:55

Homare Tadano ( Osaka University )

**Gap theorems for compact gradient Sasaki-Ricci solitons**

14:00 –14:25

Shin Satoh ( Kobe University )

**The state numbers of a knot**

14:35 –15:00

Yuta Ogata ( Kobe University )

**DPW method for CMC surfaces in 3-dimensional Lorentzian spaceforms**

15:30 –16:15

Tomonori Fukunaga ( Hokkaido University )

**Evolutes and involutes of frontals in the Euclidean plane**

16:30 –17:15

Shiota Masahiro ( Nagoya University )

**Topological version of Artin Approximation theorem**

### June 6 (Friday)

9:30 –10:15

Cristina Valle ( Tokyo Metropolitan University )

**On the blow-analytic equivalence of tribranched plane curves**

10:30 –11:15

Kota Hattori ( Keio University )

**Compact special Lagrangian submanifolds embedded in toric hyper-Kähler manifolds**

11:30 –12:15

Shoichi Fujimori ( Okayama University )

**Maximal surfaces with fold singularities in the Lorentz-Minkowski 3-space**

13:30 –13:55

Keisuke Teramoto ( Kobe University )

**Parallel surfaces of cuspidal edges**

14:00 –14:25

Yusuke Mizota ( Kyushu University )

**Is the module of lowerable vector fields finitely generated ?**

14:35 –15:00

Shun'ichi Honda ( Muroran Institute of Technology )

**Framed curves in the Euclidean space**

15:05 –15:30

Asahi Tsuchida ( Hokkaido University )

**Singularity, controllability and observability of port-Hamiltonian systems**

16:00 –16:45

Hajime Sato ( Nagoya University )

**Special Contact Structures and Singular Curves**

17:00 –17:45

Takayuki Okuda ( Kyushu University )

**Splitting of stellar singular fibers and their monodromies**

**June 7 (Saturday)**

9:00 –9:45

Takahiro Noda ( Nagoya University & Osaka City University )

**Contact geometry of partial differential equations of third order**

10:00 –10:45

Kentaro Saji ( Kobe University )

**Criteria for Morin singularities between different dimensions and its applications**

11:00 –11:45

Shinichi Tajima ( Tsukuba University )

**Vertical monodromy and local cohomology**

11:55 –12:20

Shintaro Akamine ( Kyushu University )

**Causal change of zero mean curvature surfaces of Riemann type in the Lorentz-Minkowski space**

13:30 –14:15

Jun-ichi Inoguchi ( Yamagata University )

**Constant curvature surfaces in the 3-sphere**

14:30 –15:15

Toshizumi Fukui ( Saitama University )

**Contact of a surface with cylinders and cubic binary differential equations (joint work with M. Hasegawa and K. Nakagawa)**

15:30 –17:30

**free discussion**

\* We will have a party on the evening of June 6

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