

Japanese Australian workshop on Real and Complex Singularities

Dedicated to the memory of Tzee-Char Kuo

28 September – 1 October, 2026

The Quad Seminar Room S418 (McRae)

The Quadrangle, Camperdown Campus, University of Sydney

Program

28 September, Monday

8:30 - 9:00 Registration

9:00 - 9:30 Opening (Professors DX Zhou, the Head of School, and Laurentiu Paunescu)

9:30 - 10:20 **Mutsuo Oka**, Tokyo Institute of Technology, Japan
Stability of certain μ -constant families

10:30 - 11:00 Coffee

11:00 - 11:50 **Gus Lehrer**, The University of Sydney
The Milnor fibre of an arrangement

12:00 - 12:50 **Atsuko Katanaga**, Iwate University
Topology of the links of cD_n singularities for $n > 4$

13:00 - 14:00 Lunch

14:00 - 14:50 **Takashi Nishimura**, Yokohama National University, Japan
Characterization of envelopes of line families in $\mathbb{R}^2$

15:00 - 15:30 Coffee

15:30 - 16:20 **Zbigniew Jelonek**, Institute of Mathematics, Polish Academy of Science
Bi-Lipschitz equivalent cones with different degrees

16:30 - 17:20 **Ying Chen**, HaiNan University
Relative Lipschitz triviality of analytic deformations

17:30 - 18:20 **Chong Zheng**, Shibaura Institute of Technology/ Waseda University
A Combinatorial Cerf Theory for Discrete Morse Functions

29 September, Tuesday

9:00 - 9:50 **Ruibin Zhang**, The University of Sydney
Categories of polar diagrams

10:00 - 10:30 Coffee

10:30 - 11:20 **Milena Radnovic**, The University of Sydney
Poncelet porism in singular cases

11:30 - 12:20 **Mark Perrin**, The University of Sydney
A discrete derivative for quasi-bilipschitz equivalences

Free discussion in afternoon

30 September, Wednesday

9:00 - 9:50 **Osamu Saeki**, Kyushu University
Murasugi numbers of algebraic knots

10:00 - 10:30 Coffee

10:30 - 11:20 **Toru Ohmoto**, Waseda University,
Multi-singularity counting and Hilbert's 15th Problem in modern times

11:30 - 12:20 **Shintaro Yoshizawa**, Toyota Motor Corporation
**The geometry of Monarch matrix approximation:
quiver representations, Morse theory, and the relative-Position
combinatorics of block permutations**

12:30 - 14:00 Lunch

14:00 - 14:50 **Takahiro Yamamoto**, Tokyo Gakugei University
Apparent contours of PL maps of closed surfaces into the plane

15:00 - 15:30 Coffee

15:30 - 16:20 **Masato Tanabe**, RIKEN Center for Interdisciplinary Theoretical and
Mathematical Sciences (iTHEMS)
**Thom polynomials relative to prescribed maps around the
boundary**

16:30 - 17:20 **Satoshi Koike**, Hyogo University of Teacher Education
When and how I knew Tzee-Char Kuo

18:00 - Conference dinner
Otto Noorba, 79 Glebe Point Rd, Sydney, AU 2037

1 October, Thursday

9:00 - 9:50 **Takuro Abe**, Rikkyo University

Hyperplane arrangements and graph theory (tentative)

10:00 - 10:30 Coffee

10:30 - 11:20 **Masahiko Yoshinaga**, The University of Osaka

Varchenko-Gelfand algebras of hyperplane arrangements

11:30 - 12:20 **Kiyoshi Takeuchi**, Tohoku University

A Ginsburg type theorem for real constructible sheaves and its applications

12:30 - 14:00 Lunch

14:00 - 14:50 Poster : **Kosuke Nishijima / Koki Iwakura / Toshizumi Fukui**

15:00 - 15:30 Coffee

15:30 - 16:20 **Laurentiu Paunescu**, The University of Sydney

My last mathematical correspondence with Tzee-Char Kuo

16:30 - 17:20 **Laurentiu Maxim**, University of Wisconsin-Madison, USA

On the topology of fibers of complex polynomial maps

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