

RIMS workshop 

“Analysis on Shapes of Solutions to Partial Differential Equations”

June 27 (Mon.) – 29 (Wed.), 2018

Room 420, Research Institute for Mathematical Science (RIMS),
Kyoto University

Organizers: Shinya Okabe (Tohoku University)
Michiaki Onodera (Tokyo Institute of Technology)

—Program—

Jun. 27th Wed.

- 13:45 Opening
- 13:50 – 14:40 Masato Hashizume (Ehime University)
Existence and nonexistence of ground state solution for semilinear elliptic equation involving Hardy-Sobolev critical exponent
- 15:00 – 15:50 Qing Liu (Fukuoka University)
Large exponent behavior of power-type evolution equations and applications
- 16:10 – 17:00 Masashi Aiki (Tokyo University of Science)
On the interaction of a pair of coaxial circular vortex filaments

Jun. 28th Thur.

- 10:00 – 10:50 Tomoya Kemmochi (Nagoya University)
Energy dissipative numerical schemes for gradient flows of planar curves
- 11:10 – 12:00 Alexandra Gilsbach (RWTH Aachen University)
Critical points of knot energies
- 12:00 – 13:50 Lunch
- 13:50 – 14:40 Kazuhiro Ishige (The University of Tokyo)
A supercritical scalar field equation with a forcing term

- 15:00 – 15:50 Miyuki Koiso (Kyushu University)
Uniqueness for closed embedded non-smooth hypersurfaces with constant anisotropic mean curvature
- 16:10 – 17:00 Hans-Christoph Grunau (Otto-von-Guericke-Universität)
Minimising a relaxed Willmore functional for graphs subject to Dirichlet boundary conditions
- 18:30 – Banquet

Jun. 29th Fri.

- 10:00 – 10:50 Kazuhiro Kurata (Tokyo Metropolitan University)
Construction and stability analysis of 1-peak symmetric stationary solutions to the Schnackenberg model with heterogeneity
- 11:10 – 12:00 Masahiko Shimojo (Okayama University of Science)
The center problem of reaction diffusion systems by the Darboux method and the Lie symmetries
- 12:00 Closing

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