

RIMS workshop 

“Analysis on Shapes of Solutions to Partial Differential Equations”

June 5 (Mon.) – 7 (Wed.), 2017

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

Organizers:

Shinya Okabe (Tohoku University)

Norisuke Ioku (Ehime University)

—Program—

Jun. 5th Mon.

13:45 Opening

13:50 – 14:40 Yoshihiro Tonegawa (Tokyo Institute of Technology)

A time-discrete approximate scheme for multi-phase mean curvature flow

15:00 – 15:50 Lorenzo Cavallina (Tohoku University)

Local optimality of radially symmetric configurations for the two-phase
torsion problem in the ball

16:10 – 17:00 Michinori Ishiwata (Osaka University)

On the global bounds for Sobolev norms of solutions for semilinear parabolic
equation involving critical Sobolev exponent

Jun. 6th Tue.

10:00 – 10:50 Keisuke Takasao (University of Tokyo)

Existence of weak solutions for mean curvature flow with a non-local term

11:10 – 12:00 Anna Dall’Acqua (University of Ulm)

The elastic flow of curves in the hyperbolic plane

12:00 – 13:50 Lunch

- 13:50 – 14:40 Jun-ichi Segata (Tohoku University)
Existence of a minimal non-scattering solutions to the mass-subcritical
generalized Korteweg-de Vries equation
- 15:00 – 15:50 Takasi Senba (Fukuoka University)
Behavior of solutions to a chemotaxis system with general sensitivity
function
- 16:10 – 17:00 Björn Gustafsson (Royal Institute of Technology)
Laplacian growth on a branched Riemann surface
- 18:30 – Banquet

Jun. 7th Wed.

- 10:00 – 10:50 Junichi Harada (Akita University)
Exact blow-up profile for a heat equation with a nonlinear boundary
condition
- 11:10 – 12:00 Luca Martinazzi (University of Basel)
The fractional Liouville equation in dimension 1 - Geometry, compactness
and quantization
- 12:00 Closing

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