

5th Italian-Japanese Workshop Geometric Properties for Parabolic and Elliptic PDE's

Period : May 15 (Monday) 13:20– May 19 (Friday) 12:20, 2017

Place : Conference Room L, Osaka City University Media Center 10F

—Program—

May 15th (Monday)

13:20 – 13:30 Opening

13:30 – 14:20 Shigeaki Koike (Tohoku University)
 On the rate of convergence in free boundary problems

14:30 – 15:20 Elisa Francini (Università di Firenze)
 Lipschitz stability in some inverse problems

15:20 – 15:50 Break

15:50 – 16:20 Nunzia Gavitone (Università degli studi di Napoli “Federico II”)
 Optimization problems related to some anisotropic operators

16:20 – 16:50 Jun Masamune (Hokkaido University)
 On Liouville properties of Riemannian manifolds

17:10 – 17:30 Announcement of Poster Session

17:30 – 18:45 Poster Session

19:00 – Welcome Party at ”Nonohana House” (Media Center 1F)

May 16th (Tuesday)

- 10:00 – 10:50 Ki-Ahm Lee (Seoul National University)
Fast diffusion equations and its applications
- 11:00 – 11:50 Kazuhiro Ishige (Tohoku University)
Finsler heat equation with growing initial data
- 11:50 – 14:00 Lunch
- 14:00 – 14:30 Matteo Muratori (Politecnico di Milano)
The porous medium equation with large initial data on negatively curved Riemannian manifolds
- 14:30 – 15:00 Toru Kan (Tokyo Institute of Technology)
On the solution structure of bistable reaction-diffusion equations on a thin dumbbell-shaped domain
- 15:00 – 15:30 Break
- 15:30 – 16:00 Maurizio Garrione (Università di Milano-Bicocca)
Loss of energy concentration in nonlinear evolution fourth order equations
- 16:00 – 16:30 Motohiro Sobajima (Tokyo University of Science)
Diffusion phenomena for the wave equation with space-dependent unbounded damping term
- 16:30 – 17:00 Giovanni Franzina (Università di Roma “La Sapienza”)
Variational and non-variational solutions for a p -Laplace eigenvalue problem

May 17th (Wednesday)

- 9:40 – 10:30 Shigeru Sakaguchi (Tohoku University)
Two-phase heat conductors in two dimensions and related overdetermined problems
- 10:45 – 11:35 Lorenzo Brasco (Università degli Studi di Ferrara)
Torsion function, homogeneous Sobolev spaces and negative trapping potentials
- 11:50 – 12:20 Yasuhito Miyamoto (The university of Tokyo)
A limit equation and bifurcation diagrams of semilinear elliptic equations with general supercritical growth
- 14:00 – Excursion or Free Time

May 18th (Thursday)

- 10:00 – 10:50 Dorin Bucur (LAMA, Université de Savoie)
Best constant in Poincaré and Sobolev inequalities with trace term
- 11:00 – 11:50 Eiji Yanagida (Tokyo Institute of Technology)
Dynamics of solutions of the Fisher-KPP equation for slowly decaying initial data
- 11:50 – 14:00 Lunch
- 14:00 – 14:30 Nao Hamamuki (Hokkaido University)
A comparison principle for singular degenerate parabolic equations under some dynamic boundary conditions
- 14:30 – 15:00 Francesco Chiacchio (Università degli Studi di Napoli “Federico II”)
Isoperimetric inequalities for factorized measures
- 15:00 – 15:30 Break

- 15:30 – 16:00 Erika Ushikoshi (Yokohama National University)
Hadamard variational formula for the eigenvalue of the Stokes equations
and its applications
- 16:00 – 16:30 Giorgio Poggesi (Università di Firenze)
On the stability for Alexandrov’s Soap Bubble theorem
- 16:30 – 17:00 Hidemitsu Wadade (Kanazawa University)
On the existence of maximizers for inhomogeneous Trudinger-Moser type
inequalities on the whole space
- 19:00 – Banquet at Tennoji

May 19th (Friday)

- 10:00 – 10:50 Kenji Nakanishi (Osaka University)
Maximizers for the Trudinger-Moser inequality on the whole plane
with the critical growth
- 11:00 – 11:50 Anna Mercaldo (Università degli studi di Napoli “Federico II”)
New Pólya-Szegő-type inequalities
- 11:50 – 12:20 Closing