RIMS workshop

"Analysis on Shapes of Solutions to Partial Differential Equations"

November 9 (Wed.) – 11 (Fri.), 2016

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

Kyoto University

Organizers:

Shinya Okabe (Tohoku University)

Norisuke Ioku (Ehime University)

——Program——

Nov. 9th Wed.

13:45	Opening
13:50 – 14:40	Tatsuki Kawakami (Osaka Prefecture University)
	An exterior nonlinear elliptic problem with a dynamical boundary condition
15:00 – 15:50	Daisuke Naimen (Muroran Institute of Technology)
	Two positive solutions of the Kirchhoff type elliptic problem with critical nonlinearity in high dimension
16:10 – 17:00	Robin Neumayer (The University of Texas at Austin)
	A bridge between Sobolev and Escobar inequalities and beyond

Nov. 10th Thu.

9:40 – 10:30	Tatsuya Miura (The University of Tokyo)
	On minimizers of Euler's elastica energy with an adhesion effect
10:40 – 11:30	Glen Wheeler (University of Wollongong)
	Curve diffusion and straightening flows with free boundary
11:30 – 13:00	Lunch

13:00 – 13:50 Goro Akagi (Tohoku University)

Allen-Cahn equation with strong irreversibility

14:00 – 14:50 Kenji Nakanishi (Osaka University)

Maximizers of a Trudinger-Moser-type inequality with the critical growth on the whole plane

15:10 – 16:00 Eiji Yanagida (Tokyo Institute of Technology)

Extinction profile of solutions of the logarithmic diffusion equation on $\mathbb{R}$

16:10 – 17:00 Andrea Cianchi (University of Florence)

Calderon-Zygmund pointwise estimates for nonlinear elliptic systems

18:30 – Banquet

Nov. 11th Fri.

10:00 – 10:50 Norihisa Ikoma (Kanazawa University)

On the existence of positive solutions of scalar field equations with fractional operator

11:10 – 12:00 Toshio Horiuchi (Ibaraki University)

Kato's inequality when $\Delta_p u$ is a measure and related topics

12:00 Closing

This workshop is supported by RIMS and JSPS KAKENHI:

Grant-in-Aid for Scientific Research (S) 25220702 (Takayoshi Ogawa)
Grant-in-Aid for Scientific Research (B) 26287020 (Shigeru Sakaguchi)

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