Progress in Variational Problems - Variational Problems Interacting with Probability Theories -

RIMS conference

Organizers: Futoshi Takahashi (Osaka City Univ.),

Michinori Ishiwata (Fukushima Univ.)

June 11 (Mon.) - June 13 (Wed.), 2012

Research Institute for Mathematical Sciences (RIMS), 4F Lecture Room 420, Kyoto University,

June 11 (Mon.)

14:00~14:50 Takashi Suzuki (Osaka University)

Trudinger-Moser inequality for a point vortex mean field limit with multi-intensities

15:00~15:50 Takuya Machida (Meiji University)

Relationship between quantum walks and differential equations

 $16:00\sim16:50$ Jongmin Han (Kyung Hee University)

Structure of radial solutions of nonlinear equations arising from Chern-Simons O(3) sigma-model

Session -Variational Problems Interacting with Probability Theories -

(Session organizer: F. Takahashi)

June 12 (Tue.)

10:00~10:50 Shin-ichi Ohta (Kyoto University)

Curvature-dimension condition and heat flow on metric measure spaces

11:00~11:50 Adrien Blanchet (Université de Toulouse)

The Keller-Segel system via optimal transport

13:10~14:00 Toshio Mikami (Hiroshima University)

Stochastic optimal transportation and related topics

14:10~15:00 Kazuhiro Kuwae (Kumamoto University)

On non-linear spectral gap for symmetric Markov chains with coarse Ricci curvature

15:10~16:00 Naoyuki Ichihara (Hiroshima University)

Long time asymptotic problems for stochastic optimal control and related variational problems

16:10~17:00 Shigeki Aida (Tohoku University)

Tunneling for $P(\phi)_2$ -Hamiltonians

 $18:30\sim$ Banquet

June 13 (Wed.)

9:30~10:20 Didier Smets (Université Pierre & Marie Curie)

On the stability of filament flows and Schrodinger maps

10:30~11:20 Norisuke Ioku (Ehime University)

Hardy type inequalities with scale invariance in limiting cases

11:30~12:20 Ryuji Kajikiya (Saga University)

Semilinear elliptic equations in symmetric domains

This workshop is supported by RIMS and

- JSPS Grant-in-Aid for Scientific Research (S), No. 23224003 (Y. Tsutsumi),
- JSPS Grant-in-Aid for Scientific Research (B), No. 23340038 (F. Takahashi).