

RIMS Workshop

Singularity and asymptotic behavior of solutions for partial differential equations with conservation law

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Date and time : Monday, June 7, 2016; 13:10– Wednesday, June , 2016; 12:00

Place : kyoudai-SuriKaisekiKenkyujo Room 420, Kitashirakawa-Oiwake-cho, Sakyo-ku, Kyoto 606-8502.

Program

June 7, Wednesday

13:10-14:00 : Yasushi Taniuchi (Shinshu University)

Brezis-Gallouet-Wainger type inequality and its application to the Navier-Stokes equations

14:10–15:00 : Tatsuki Kawakami (Ryukoku University)

Asymptotic expansions of solutions of fractional diffusion equations

15:10–15:40 : Masayuki Hayashi (Waseda University)

A sufficient condition for global existence of solutions to a generalized derivative nonlinear Schrödinger equation

16:00–16:50 : Makiko Sasada (University of Tokyo)

Derivation of evolution equation for macroscopic parameters from a microscopic system

June 8, Thursday

10:00–10:50 : Tuomo Kuusi (Aalto University)

The additive structure of elliptic homogenization

11:00–11:50 : Shiro Hirano (Ritsumeikan University)

Energy estimation of earthquake faulting based on a wavefield inversion

(Lunch)

14:00–14:50 : Hiromichi Itou (Tokyo University of Science)

On crack problems for nonlinear elasticity

15:10–15:40 : Hiroshi Wakui (Tohoku University)

Finite time blow up and non-uniform bound for solutions to a degenerate drift-diffusion equation with the mass critical exponent

15:50–16:40 : Shohei Honda (Tohoku University)

New stability results for sequences of metric measure spaces with uniform Ricci bounds from below

(banquet)

June 9, Friday

10:10–11:00 : Kazuhiro Kurata (Tokyo Metropolitan University)

Asymptotic behavior of minimizers of nonlinear variational problems associated with nonlinear Schrödinger equations on a non-compact metric graph

11:10–12:00 : Shuichi Kawashima (Kyushu University)

Dissipative structure for hyperbolic systems with memory

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