

Regularity and Singularity for Partial Differential Equations with Conservation Laws

at Research Institute of Mathematical Science

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Date and Time : Wednesday, May 28, 2014; 13:30– Friday, May 30, 2014; 12:10

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

Schedule

May 28, Wednesday

13:30–14:30 Niko Marola (Aalto University)

「 On the growth of infinity harmonic functions 」

14:40–15:40 Yoshihiro Tonegawa (Hokkaido University)

「 Convergence of the Allen-Cahn equation with Neumann boundary conditions 」

16:00–17:00 Kenji Nakanishi (Kyoto University)

「 Global dynamics for energy-critical dispersive equations 」

May 29, Thursday

9:50–10:50 Isabelle Gallagher (Université de Paris-Diderot)

「 From particles to kinetic equations and hydrodynamics 」

11:00–12:00 Yoshinori Morimoto (Kyoto University)

「 Global smoothing effect of infinite energy solutions to the homogeneous Boltzmann equation of Maxwellian molecules 」

Lunch

13:30–14:30 Nao Hamamuki (Waseda University)

「An improved level set method for Hamilton-Jacobi equations」

14:40–15:40 Jun Masamune (Tohoku University)

「On the Markov property of a non-symmetric operator on a compact manifold with boundary」

16:00–17:00 Senjo Shimizu (Shizuoka University)

「End-point maximal L^1 -regularity of the Cauchy problem for a parabolic equation」

May 30, Friday

10:00–11:00 Kenji Nishihara (Waseda University)

「Critical exponent for the Cauchy problem to the weakly coupled damped wave system」

11:10–12:10 Hideo Nakazawa (Nippon Medical School)

「Uniform resolvent estimates for Helmholtz equations in 2D exterior domain and their applications」

This symposium is sponsored by the JSPS grant in aid for scientific research;

Basic Research C #24540215 (M.Misawa)

Basic Research S #25220702 (T.Ogawa)

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(As of April 14, 2014)