Regularity and Singularity for Geometric Partial Differential Equations and Conservation Laws

at Resarch Institute of Mathematical Science

Masashi Misawa (Kumamoto University)

Takayoshi Ogawa (Tohoku University)

Date and Time : Wednesday, June 13, 2012; 14:00– Friday, June 15, 2012; 14:50

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

Schedule

June 13, Wednesday

14:00–14:50 Atsushi Tachikawa (Tokyo University of Science)
Partial regularity of $p(x)$-harmonic maps

15:00–15:50 Tuomo Kuusi (Aalto University, Columbia University)
Update to nonlinear potential theory

16:10–17:00 Yasuhito Miyamoto (Keio University)
Structure of the positive solutions for supercritical elliptic equations in a ball

June 14, Thursday

10:00–10:50 Masaru Ikehata (Gunma University)
Extracting the geometry of an acoustic enclosure from dynamical back-scattering data: an inverse problem for the wave equation

11:00–11:50 Hiroyuki Takamura (Future University Hakodate)
Almost global solutions of semilinear wave equations with the critical exponent in high dimensions

Lunch

14:00–14:50 Michinori Ishiwata (Fukushima University)
    Asymptotic behavior of solutions for semilinear parabolic equation with critical Sobolev exponent

15:00–15:50 Toru Kan (Tohoku University)
    On non-radially symmetric solutions of the Liouville-Gel'fand equation on a two-dimensional annular domain

16:10–17:00 Nakao Hayashi (Osaka University)
    Scattering problem for nonlinear Klein-Gordon equations in 2d

June 15, Friday

10:10–11:00 Fumihiko Nakano (Gakushuin University)
    Level statistics for one-dimensional random Schroedinger operator

11:10–12:00 Masayoshi Takeda (Tohoku University)
    L^p-independence of growth bounds of symmetric Markov semigroups and its applications

Lunch

13:00–13:50 Sachiko Ishida (Tokyo University of Science)
    On the solvability of Keller-Segel systems with porous medium-type diffusion

14:00–14:50 Tsukasa Iwabuchi (Chuo University)
    Ill-posedness for the nonlinear Schrödinger equations in one space dimension

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