The 15th Northeastern Symposium on Mathematical Analysis

Date：2012-2-17 (Mon.) 〜 2012-2-18 (Tue.)
Venue：Room 5-201, Faculty of Science Building #5,
Hokkaido University, Sapporo, Japan
Organizer：Hideo Takaoka(Hokkaido University)
Yasunori Maekawa (Tohoku University)
Tadahiro Miyao (Hokkaido University)
http://www.math.sci.hokudai.ac.jp/sympo/nema/15_en.html

2012 - 2-17（Mon.）

09:55--10:00 Opening

10:00--10:50 Hiroaki Aikawa (Hokkaido University)
Estimates of the principal frequency and Dirichlet heat kernel on a
nonsmooth domain

11:00--11:50 Zihua Guo (Peking University)
Fourier restriction estimate and its applications in PDEs

13:10--14:00 Masaki Kurokiba (Muroran Institute
of Technology)
Existence and blowing up for a system of the drift-diffusion
equation

14:10--14:40 Hidemitsu Wadade (Gifu University)
Optimal embeddings on critical Sobolev-Lorentz-Zygmund spaces

14:50--15:20 Ryo Takada (Tohoku University)
The 3D rotating Euler equations with the critical Sobolev regularity

15:30--16:00 Keisuke Takasao (Hokkaido University)
The existence of weak solution for mean curvature flow with
external force term

16:20--17:45 Poster Session

18:00--19:45 Reception

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10:00--10:50 Shinya Okabe (Tohoku University)
Convergence to equilibrium of gradient flows defined on planar curves

11:00--11:50 Yung-fu Fang (National Cheng Kung
University)
Well-posedeness for quantum Zakharov system in 1D

13:10--13:40 Yuki Kurokawa (Hokkaido University
of Education)
Lifespan of solutions to systems of semilinear wave equations with
different speeds

13:50--14:20 Masahiro Ikeda (Tohoku University)
Null structure and well-posedness for a quadratic derivative NLS system

14:30--14:50 Kota Uriya (Tohoku University)
Final state problem for a quadratic nonlinear Schrödinger system in two
dimensions with mass resonance

14:55--15:15 Kouta Usui (Hokkaido University)
Construction of dynamics and time-ordered exponential for unbounded
non-symmetric Hamiltonians

15:25--15:45 Lami Kim (Hokkaido University)
α-Gauss curvature flows

15:50--16:10 Hiroko Yamamoto (Tohoku University)
Effects of spatial heterogeneity on the location of concentration points
in solutions of a semilinear Neumann problem

16:10--16:15 Closing

Please visit the website for updated information on the symposium.

Contact：Mathematics Research Support Office
Department of Mathematics, Hokkaido University
TEL: 011-706-4671 FAX: 011-706-4672
E-mail: cri(atmark)math.sci.hokudai.ac.jp