

2nd HU and SNU Symposium on Mathematics

on the occasion of the 7th SNU-HU Joint Symposium

Date: July 9, 2004; 9:00—17:20

Place: Department of Mathematics, Faculty of Science, Hokkaido University,
3rd and 4th buildings, 5th floor

- PDE 3-311 - Inverse Problem 3-512
- Numerical Analysis 4-508 - Free use 4-509

URL: <http://coe.math.sci.hokudai.ac.jp/sympo/040709/index-en.html>

Time Table:

09:00- /10:00- /11:00- /12:00 (Lunch)/13:30- /14:30- /15:30- /16:30-

Party: TBA

Participants:

SNU-BK21

prof. : Dohan Kim (director of BK21), Hyeonbae Kang (organizer), Seung Yeal Ha, Myungjoo Kang, Ki-ahm Lee, Dongwoo Sheen

posdoc./std.: Cheok Choi, Hyungjin Huh, Miyoun Jung, Heejeong Lee, Hyundae Lee, Jinwoo Lee, Nam Kee Lee

HU-COE

prof. : Tohru Ozawa (director of COE), Keizo Yamaguchi, Gen Nakamura, Yoshihiro Tonegawa, Makoto Iima, Reika Fukuizumi, Yoshihito Kohsaka, Toru Ohmoto (organizer), ...

posdoc./std. : Noriaki Umeda, Bendong Lou, Munetaka Saitoh, Shengzhang Wang, Mourad Sini, Michiyuki Watanabe, ...

PDE session: 3-311 room

09:00- 09:50 Dohan Kim,

Bochner-Schwartz theorems for generalized functions

10:00-10:50 Yoshihiro Tonegawa*,

Applications of geometric measure theory to phase separation problems

11:00-11:25 Nam Kee Lee,

Deconvolution of multisensor problems

11:30-11:55 Noriaki Umeda,

On global existence and blow-up of solutions

of a weakly coupled system of reaction-diffusion equations

13:30-14:20 Seung Yeal Ha,

Nonlinear functionals of the Boltzmann equation and uniform stability estimates

14:30-14:55 Reika Fukuizumi*,

Convergence property of variational problems related to
nonlinear Schrödinger equations and its applications

15:00-15:25 Hyungjin Huh,

Cauchy Problems of the Gauged Sigma Model

15:30-16:25 Yoshihito Kohsaka,

A criterion of linearized stability of stationary solutions for surface diffusion flow
equation

16:30-17:20 Ki-ahm Lee,

Viscosity method for homogenization of highly oscillating obstacles

Inverse Problem session: 3-512 room

09:00-09:50 Hyeonbae Kang,
Gradient estimates for solutions to the conductivity problem

10:00-10:50 Gen Nakamura*,
Application of Oscillating-decaying Solutions for Identifying Cavity

11:00-11:50 Mourad Sini,
Inverse dynamical problem for connected beams

13:30-13:55 Hyundae Lee,
Identification of Simple Poles via Boundary Measurements
and an Application to EIT

14:00-14:25 Shengzhang Wang,
Numerical Experiments for Reconstruction Formulas of Conductivity
at the Boundary from Localized Dirichlet to Neumann Map

14:30-15:20 Michiyuki Watanabe,
Inverse Problem for the Nonselfadjoint Schrödinger Operator
with Energy Dependent Potential in Two Dimensions

15:30-16:20 Cheek Choi,
Corrosion detection in a pipe

Numerical Analysis session : 4-508 room

09:00-09:50 Makoto Iima*,
Symmetry breaking and symmetry recovery in the models of insects flight

10:00-10:50 Dongwoo Sheen,
Recent progresses on nonconforming finite element

11:00-11:25 Jinwoo Lee,
A numerical method for backward parabolic problems

11:30-11:55 Heejeong Lee,
A quadratic nonconforming finite element

13:30-14:20 Myungjoo Kang,
Level set-based geometric optics

14:30-15:20 Bendong Lou,
Periodic Traveling Waves in an Undulating Band Domain
and Their Homogenization Limit

15:30-15:55 Miyoun Jung,
Level set-based image segmentation using active contours without edge

16:00-16:25 Munetaka Saitoh,
Reinforcement Learning Model with Short-Term Memory Capability