

# The 38th Sapporo Symposium on Partial Differential Equations (第38回偏微分方程式論札幌シンポジウム)

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H. Kubo, T. Sakajo, and H. Takaoka

Period (期間) August 21, 2013 - August 23, 2013

Venue (場所) Room 203, Faculty of Science Building #5, Hokkaido University  
北海道大学 理学部 5号館大講義室 (203号室)

URL <http://www.math.sci.hokudai.ac.jp/sympo/sapporo/program130821.html>

August 21, 2013 (Wednesday)

09:30-09:40 Opening Session

09:40-10:40 中村周 (東京大学) Shu Nakamura (The University of Tokyo)  
Application of phase space analysis to the scattering theory for continuous and discrete Schrödinger equations

10:40-11:10 \*

11:10-12:10 Jaeyoung Byeon (Korea Advanced Institute of Science and Technology)  
Phase transition solutions to an Allen-Cahn model equation

14:00-14:30 \*

14:30-15:00 石渡哲哉 (芝浦工業大学) Tetsuya Ishiwata (Shibaura Institute of Technology)  
Structure-preserving finite difference scheme for some sphere-valued partial differential equations

15:20-15:50 石田祥子 (東京理科大学) Sachiko Ishida (Tokyo University of Science)  
Boundedness in degenerate Keller-Segel systems of parabolic-parabolic type

16:00-16:30 吉川周二 (愛媛大学) Shuji Yoshikawa (Ehime University)  
An error estimate of conservative finite difference scheme for the Boussinesq type equations

16:30-17:00 \*

August 22, 2013 (Thursday)

- 09:30-10:30 Thomas Sideris ( University of California, Santa Barbara )  
Existence of solutions for isotropic elastodynamics
- 10:30-11:00 \*
- 11:00-12:00 小俣正朗 ( 金沢大学 ) Seiro Omata (Kanazawa University)  
Mathematical modeling and numerical treatment of adhesion, exfoliation and collision
- 14:00-14:30 \*
- 14:30-15:00 白川健 ( 千葉大学 ) Ken Shirakawa (Chiba University)  
Phase field systems of grain boundaries with solidification effects
- 15:10-15:40 加藤孝盛 ( 名古屋大学 ) Takamori Kato ( Nagoya University )  
A cancellation property and the well-posedness for the periodic KdV equations
- 15:40-16:00 \*
- 16:00-16:30 阿部健 ( 東京大学 ) Ken Abe ( The University of Tokyo )  
Resolvent estimates for the Stokes equations in spaces of bounded functions
- 16:40-17:10 若狭恭平 ( 北海道大学 ) Kyohei Wakasa ( Hokkaido University )  
Global existence for semilinear wave equations with the blow-up term in high dimensions
- 17:10-17:30 \*
- 18:00-20:00 Reception at Enreiso ( 懇親会, エンレイソウ )

August 23, 2013 (Friday)

- 09:30-10:30 Giandomenico Orlandi ( The University of Verona )  
Time-like minimal surfaces in Minkowski space
- 10:30-11:00 \*
- 11:00-12:00 小川卓克 ( 東北大学 ) Takayoshi Ogawa ( Tohoku University )  
 $L^1$  maximal regularity and local existence of a solution to the compressible Navier-Stokes-Poisson system in a critical Besov space
- 12:00-12:30 \*

\* Free discussion with speakers in the tea room