International Workshop on PDE

"Concentration and Related Topics in Nonlinear Problems"

Organizing Committee: Eiji Yanagida (Tokyo Inst. Tech.)

Hideo Kozono (Tohoku Univ.)
Takayoshi Ogawa (Tohoku Univ.)
Kazuhiro Ishige (Tohoku Univ.)

Date and Time Nov. 22 (Mon) 10:00 - Nov. 23 (Tue) 17:10

Place Mathematical Science Memorial Hall (Kawai-Hall)

Mathematical Institute, Aoba Campus, Tohoku University

Sendai City Bus, School of Science or Graduate School of Informatics

http://www.math.tohoku.ac.jp/~sa5m16/CRTNP/index-en.html

Banquet Mori-no Parc, Fujisaki B1, Ichibancho, Sendai

http://www.math.tohoku.ac.jp/~sa5m16/CRTNP/BanquetMap-en.html

Program

Nov. 22 (Mon)	
10:00 - 10:50	Chang-Shou Lin (Nat. Taiwan Univ.) A nonlinear PDE arising from tt^* geometry
11:00 - 11:50	Yasuhito Miyamoto (Tokyo Inst. Tech.) The "hot spots" conjecture for a certain class of planar convex domains.
Lunch break	
14:00 - 14:25	Kanako Suzuki (Tohoku Univ.) 「Patterns of the shadow system with nontrivial basic production terms」
14:30 - 14:55	Tatsuki Kawakami (Hiroshima Univ.) 「Asymptotic profile for the Laplace equation with a nonlinear dynamical boundary condition」
15:10 - 16:00	Futoshi Takahashi (Osaka City Univ.) 「Multi-bubble solutions and the geometry of the domain: some simple cases」
16:10 - 17:00	Takeyuki Nagasawa (Saitama Univ.) 「The n-dimensional Helfrich flow」

Nov. 23 (Tue)	
10:00 - 10:50	Wei-Ming Ni (Minnesota Univ. / East China Normal Univ.) 「Diffusion and directed movements in heterogeneous environment」
11:00 - 11:50	Takashi Suzuki (Osaka Univ.) 「Hamilton formalism to compressible no-viscous fluid equation and application」
Lunch break	
14:00 - 14:25	Hidemitsu Wadade (Osaka City Univ.) 「Minimizing problems for the Hardy-Sobolev type inequality with the singularity on the boundary」
14:30 - 14:55	Shota Sato (Japan Ministry of Justice) 「Blow-up at space infinity of a solution with a moving singularity for a semilinear parabolic equation」
15:10 - 16:00	Chiun-Chuan Chen (Nat. Taiwan Univ.) 「Travelling wave solutions of 3-species competition-diffusion equations」
16:10 - 17:00	Izumi Takagi (Tohoku Univ.) 「Point-condensation phenomena in mathematical models of pattern formation in hydra」
19:00 -	Banquet

This workshop is partially supported the following grants:

- JSPS Grant-in-aid for Scientific Research, Basic Research (S) 20224013 (Rep. H. Kozono) 「Global Well-posedness for Nonlinear Partial Differential Equations」
- JSPS Grant-in-aid for Scientific Research, Basic Research (A) 19204014 (Rep. E. Yanagida) 「New Development of the Qualitative Theory for Nonlinear Parabolic and Elliptic Equations」
- JSPS Grant-in-aid for Scientific Research, Basic Research (A) 20244009 (Rep. T. Ogawa) 「Research for Asymptotic Critical Structures for Nonlinear Evolution Equations」
- JSPS Grant-in-aid for Scientific Research, Basic Research (B) 19340036 (Rep. K. Ishige) 「Asymptotic Analysis and Figure of Solutions for Diffusion Equations」