

# The 48th Sapporo Symposium on Partial Differential Equations

## 第 48 回偏微分方程式論札幌シンポジウム

Period	August 16 , 2023 – August 18, 2023
Organizers	Shin-Ichiro Ei, Satoshi Masaki, Hirotoshi Kuroda
Program Committee	Shin-Ichiro Ei, Yoshikazu Giga, Nao Hamamuki, Shuichi Jimbo, Hideo Kubo, Hirotoshi Kuroda, Yikan Liu, Satoshi Masaki, Tohru Ozawa, Takashi Sakajo, Kimitoshi Tsutaya
URL	<a href="https://www.math.sci.hokudai.ac.jp/sympo/sapporo/program230816.html">https://www.math.sci.hokudai.ac.jp/sympo/sapporo/program230816.html</a>

### August 16, 2023 (Wednesday)

13:10-13:20	Opening
13:20-14:20	北直泰 (熊本大学) Naoyasu Kita (Kumamoto University) Large time behavior of solutions to a system of dissipative nonlinear Schrödinger equations
14:35-15:15	高棹圭介 (京都大学) Keisuke Takasao (Kyoto University) Convergence of Allen-Cahn equation with non-local term to volume preserving mean curvature flow
15:15-15:40	*
15:40-16:10	Chueh-Hsin Chang (National Chung Cheng University) Front-back-pulse solutions of a three-species Lotka-Volterra competition diffusion system through heteroclinic bifurcation approach
16:20-16:50	片山翔 (東京大学) Sho Katayama (The University of Tokyo) A supercritical Hénon equation with a forcing term
17:00-17:30	勝呂剛志 (大阪公立大学) Takeshi Suguro (Osaka Metropolitan University) Stability of the logarithmic Sobolev inequality for the Tsallis entropy and its application

August 17, 2023 (Thursday)

- 10:00-11:00 Junping Shi (College of William & Mary)  
Uniqueness of positive solution to some coupled cooperative variational elliptic systems
- 11:15-11:45 岡本潤 (京都大学) Jun Okamoto (Kyoto University)  
A singular limit of the Kobayashi--Warren--Carter system
- 11:45-13:30 \*
- 13:30-14:30 小池茂昭 (早稲田大学) Shigeaki Koike (Waseda University)  
ABP maximum principle with upper contact sets for fully nonlinear elliptic PDEs
- 14:45-15:15 廣瀬和也 (北海道大学) Kazuya Hirose (Hokkaido University)  
A dynamical approach to lower gradient estimates for viscosity solutions of Hamilton-Jacobi equations
- 15:15-15:30 \*
- 15:30-16:10 Michał Łasica (The Polish Academy of Sciences)  
Bounds on the gradient of minimizers in variational denoising
- 16:20-16:50 齋藤平和 (電気通信大学) Hirokazu Saito (The University of Electro-Communications)  
Time decay estimates of  $L_p$ - $L_q$  type for the Stokes semigroup arising from two-phase incompressible viscous flows
- 17:00-17:30 Chih-Chiang Huang (National Chung Cheng University)  
Boundary Conditions for Cylindrical Traveling Waves of Reaction-Diffusion Equations
- 17:30-18:00 Free discussion with speakers

August 18, 2023 (Friday)

- 10:00-11:00 肥田野久二男 (三重大学) Kunio Hidano (Mie University)  
D'Alembert formula approach to semi-linear systems of wave equations with or without the null condition
- 11:15-11:55 高津飛鳥 (東京都立大学) Asuka Takatsu (Tokyo Metropolitan University)  
Characterization of concavity preserved by the Dirichlet heat flow
- 11:55-12:00 Closing

(\* : breaks/discussions)