

# The 50th Sapporo Symposium on Partial Differential Equations

## 第 50 回偏微分方程式論札幌シンポジウム

Period	August 4, 2025 – August 6, 2025
Place	N308, The main Bldg. of Faculty of Science (Aug. 4th), 5-203, Faculty of Science Bldg. #5 (Aug. 5-6th)
Organizers	Nao Hamamuki, Kosuke Kita, Hideo Kubo, Hirotohi Kuroda, Satoshi Masaki
Program Committee	Shin-Ichiro Ei, Yoshikazu Giga, Nao Hamamuki, Shuichi Jimbo, Kosuke Kita, Hideo Kubo, Hirotohi Kuroda, Satoshi Masaki, Tohru Ozawa, Kimitoshi Tsutaya
URL	<a href="https://www.math.sci.hokudai.ac.jp/sympo/sapporo/program250804.html">https://www.math.sci.hokudai.ac.jp/sympo/sapporo/program250804.html</a>

### August 4, 2025 (Monday)

12:50-13:00	Opening
13:00-13:40	Vladimir Georgiev (University of Pisa) Uniqueness and non degeneracy of ground states for generalized Choquard equation
13:50-14:30	片山聡一郎 (大阪大学) Soichiro Katayama (The University of Osaka) Global solutions to systems of nonlinear wave equations under a kind of weak null condition
14:30-15:00	(break/discussion)
15:00-15:40	Nicola Visciglia (University of Pisa) Smoothing effect of the nonlinear scattering operator associated with NLS
15:50-16:30	高村博之 (東北大学) Hiroyuki Takamura (Tohoku University) Recent developments on non-autonomous nonlinear wave equations
16:50-17:30	小澤徹 (早稲田大学) Tohru Ozawa (Waseda University) Schrödinger equation from Galileian point of view

August 5, 2025 (Tuesday)

- 10:00-10:40 Salvador Moll (University of Valencia)  
Lipschitz regularity for manifold-constrained ROF elliptic systems
- 10:50-11:30 白川健 (千葉大学) Ken Shirakawa (Chiba University)  
Optimal control of grain boundary dynamics with state-dependent mobility
- 11:40-12:20 Piotr Rybka (University of Warsaw)  
Gradient flows with a small parameter
- 12:20-13:50 (break/discussion)
- 13:50-14:10 (Free discussion with speakers in the tea room)
- 14:10-14:50 前川泰則 (京都大学) Yasunori Maekawa (Kyoto University)  
On non-uniqueness of solutions to the two-dimensional forced Navier-Stokes equations in the half space
- 15:00-15:40 高棹圭介 (京都大学) Keisuke Takasao (Kyoto University)  
On the singular limit of the weighted Allen-Cahn equation
- 15:40-16:10 (break/discussion)
- 16:10-16:50 大塚岳 (群馬大学) Takeshi Ohtsuka (Gunma University)  
A minimizing movements approach with a level set formulation for evolving spirals by crystalline eikonal curvature flow
- 17:00-17:40 儀我美一 (東京大学) Yoshikazu Giga (The University of Tokyo)  
On Kobayashi-Warren-Carter type total variation energy with fidelity
- 18:30- Banquet

August 6, 2025 (Wednesday)

- 10:00-10:40 神保秀一 (北海道大学) Shuichi Jimbo (Hokkaido University)  
Semilinear parabolic equations on a simple metric graph
- 10:50-11:30 可香谷隆 (室蘭工業大学) Takashi Kagaya (Muroran Institute of Technology)  
Singular boundary condition problems for a class of fully nonlinear parabolic equations
- 11:40-12:20 小園英雄 (早稲田大学/東北大学)  
Hideo Kozono (Waseda University/Tohoku University)  
Stability of an equilibrium of the MHD equations in 3D domains with arbitrary geometry
- 12:20-12:30 Closing