

# The 51st Sapporo Symposium on Partial Differential Equations

第51回偏微分方程式論札幌シンポジウム

Period	August 5, 2026 – August 7, 2026
Place	5-203, Faculty of Science Bldg. #5
Organizers	Satoshi Masaki, Kosuke Kita
Program Committee	Shin-Ichiro Ei, Yoshikazu Giga, Nao Hamamuki, Kosuke Kita, Hideo Kubo, Hirotohi Kuroda, Satoshi Masaki, Tohru Ozawa, Kimitoshi Tsutaya
URL	<a href="https://www.math.sci.hokudai.ac.jp/sympo/sapporo/program260805.html">https://www.math.sci.hokudai.ac.jp/sympo/sapporo/program260805.html</a>

## August 5, 2026 (Wednesday)

13:20-13:30	Opening
13:30-14:30	中村周 (学習院大学) Shu Nakamura (Gakushuin University) Topics on the analysis of simple neural networks
14:40-15:10	佐藤卓弥 (東京大学) Takuya Sato (The University of Tokyo) Quantitative homogenization for obstacle problems of convex Hamilton-Jacobi equations
15:10-15:40	(break/discussion)
15:40-16:40	柳澤卓 (早稲田大学/奈良女子大学) Taku Yanagisawa (Waseda University/Nara Women's University) Boundary value problems of magnetohydrodynamics in 3D bounded domains
16:50-17:30	寺本有花 (愛媛大学) Yuka Teramoto (Ehime University) Global solvability of simplified Ericksen-Leslie system with thermal effects

## August 6, 2026 (Thursday)

10:00-11:00	Jacopo Bellazzini (University of Pisa) NLS with mass-subcritical combined nonlinearities: small mass-scattering
11:10-11:40	駒田洗一 (早稲田大学) Koichi Komada (Waseda University) Scattering of group-invariant solutions for nonlinear fourth-order Schrödinger equation
11:40-13:40	(break/discussion)
13:40-14:00	(Free discussion with speakers in the tea room)

- 14:00-15:00 高橋仁 (東京科学大学) Jin Takahashi (Institute of Science Tokyo)  
Blow-up rate for the subcritical semilinear heat equation in non-convex domains
- 15:10-15:40 岡優丞 (東北大学) Yusuke Oka (Tohoku University)  
Grow up rate of exponential reaction diffusion equations with inhomogeneous terms
- 15:40-16:20 (break/discussion)
- 16:20-16:50 Yu Zhou (Hokkaido University)  
Lifespan estimates for classical solutions of nonlinear wave equations with nonlinear boundary condition in one dimension
- 17:00-18:00 堤誉志雄 (京都大学) Yoshio Tsutsumi (Kyoto University)  
Well-posedness of the Cauchy problem in low regularity for kinetic derivative NLS on  $\mathbf{T}$
- 19:00- Banquet

August 7, 2026 (Friday)

- 10:00-11:00 下條昌彦 (東京都立大学) Masahiko Shimojo (Tokyo Metropolitan University)  
Stability of traveling waves in non-cooperative systems with nonlocal dispersal via an entropy framework
- 11:10-11:50 田中吉太郎 (公立はこだて未来大学) Yoshitaro Tanaka (Future University Hakodate)  
Vanishing viscosity and quasi-steady state limit for a chemo-repulsion system in one-dimensional space
- 11:50-12:00 Closing