The 27th Northeastern Symposium on Mathematical Analysis

Date : February 16 (Mon) – 17 (Tue), 2026

Venue : N-308, The main Bldg of Faculty of Science, Hokkaido University

Program

February 16 (Mon.)

10:00 - 10:50 **Eiji Yanagida** (The University of Tokyo / Meiji University)

Solvability of the heat equation with a moving singular potential

11:00 - 11:50 **Young-Ran Lee** (Sogang University)

On the dispersion-managed nonlinear Schrödinger equation with power-type nonlinearity

11:50 - 13:20 Lunch Break

13:20 - 13:50 **Ryosuke Sato** (Hokkaido University)

Quantum stochastic calculus and asymptotic representation theory

14:00 - 14:30 **Motofumi Aoki** (Kyoto University)

On the non-uniqueness of the mild solution to incompressible Navier–Stokes equations in two-dimensional half-space

14:50 - 15:10 **Bushra Nisar** (Hokkaido University)

Global Weak Solutions to the Nonlinear Wave Equations with Damping under Fractional Derivative Control

15:10 - 15:30 **Yoshihito Nakajima** (Tohoku University)

Time-fractional evolution equations involving m-accretive operators

15:30 - 15:50 **Takuma Yoshizumi** (The University of Osaka)

Finite time blow-up and lifespan estimates for nonlinear Klein–Gordon equations in FLRW spacetimes

16:00 - 16:20 Poster Preview

16:30 - 18:30 Poster Session **(Common space, Faculty of Science Bldg. #5)**

19:30 - Banquet

February 17 (Tue.)

10:00 - 10:50 **Léo Bigorgne** (University of Rennes 1)

Modified scattering for the small data solutions to the Vlasov-Maxwell system

11:00 - 11:50 **Okihiro Sawada** (Kitami Institute of Technology)

Functional and numerical analysis of Belousov-Zhabotinsky reaction

11:50 - 13:20 Lunch Break

13:20 - 13:50 **Erbol Zhanpeisov** (Tohoku University)

Blow-up rate for the subcritical semilinear heat equation in non-convex domains

13:50 - 14:20 **Sho Katayama** (The University of Tokyo)

Fundamental solutions to the heat equation with dynamical boundary conditions

14:40 - 15:00 **Kosuke Shibuya** (Tohoku University)

Global in time solutions to the convection diffusion equation
with the critical dissipation

15:00 - 15:20 **Akitoshi Hoshiya** (The University of Tokyo)

Dispersive estimates for one dimensional Schrödinger equations
with slowly decaying attractive potentials

15:20 - 15:40 **Kaede Watanabe** (Tohoku University)

Ocean Wave Spectrum Reconstruction via HF Radar
— A Regularization Framework for a Nonnegative Inverse Problem

15:40 - 16:00 Poster Award Ceremony and Closing

Organizers: Hideo Kubo (Hokkaido University)
Kentaro Fujie (Tohoku University)
Kosuke Kita (Hokkaido University)