The 25th Northeastern Symposium on Mathematical Analysis

Date： 19 - 20 February 2024
Venue： Room 3-309, Faculty of Science Building #3, Hokkaido University

URL: https://www.math.sci.hokudai.ac.jp/sympo/nema/25.html
https://www.math.sci.hokudai.ac.jp/sympo/nema/25_en.html

Program

19 February 2024

09:45 - 09:50	Opening
09:50 - 10:40	Shigeru Sakaguchi (Tohoku University) Stationary isothermic surfaces with transmission conditions
10:50 - 11:40	Kimitoshi Tsutaya (Hirosaki University) Blow up of solutions of semilinear wave equations with time-dependent propagation speed and damping
11:40 - 13:10	Lunch (90min)
13:10 - 13:40	Ryo Muramatsu (Tohoku University) On the Shcrödinger equation with magnetic fileds in modulation space
13:40 - 14:00	Shimpei Makida (Hokkaido University) Stability of metric viscosity solutions under Hausdorff convergence
14:10 - 14:30	Mizuki Kojima (Tokyo Institute of Technology) On solvability of a time-fractional semilinear heat equation, and its quantitative approach to the classical counterpart
14:30 - 14:50	Shunsuke Kitamura (Tohoku University) Instant blow-up of solutions of one dimensional semilinear wave equations with spatial weights
14:50 - 15:10	Zhongyang Gu (The University of Tokyo) The Helmholtz decomposition of a BMO type vector field in general unbounded domains
15:20 - 15:50	Poster Preview

16:00 - 18:00 Poster Session

Free discussion

20 February 2024

9:50 - 10:40 Hirotoshi Kuroda (Hokkaido University)
The fourth-order total variation flow in $\mathbb{R}^n$

10:50 - 11:40 Ming-Chih Lai (National Yang Ming Chiao Tung University)
Structure-preserving neural network methods for elliptic PDEs with interfaces

11:40 - 13:10 Lunch (90min)

13:10 - 13:40 Ken Furukawa (RIKEN)
Well-Posedness of One-Dimensional Drift-Diffusion Equations under Dynamic Conditions and the Fourth Boundary Condition

13:40 - 14:00 Shuli Chen (Hokkaido University/Southeast University)
Approximate peak time and its application to time-domain fluorescence diffuse optical tomography

14:10 - 14:30 Kotaro Sato (Tohoku University)
Vanishing-viscosity limit in rate-independent evolution equations with a degenerate and singular dissipation potential

14:30 - 14:50 Dáithí Ó hAodha (Tohoku University)
Large-Time Behaviour of the Curl-Free Navier-Stokes Equations

14:50 - 15:10 Dongyuan Xiao (The University of Tokyo)
Linear determinacy on the propagation phenomena of the Lotka-Volterra competition system

15:20 - 15:40 Poster Award Ceremony & Closing