

The 21st Northeastern Symposium on Mathematical Analysis

Venue Department of Mathematics, Hokkaido University Room 3-309

Date 17-18 February 2020

URL <https://www.math.sci.hokudai.ac.jp/sympo/nema/21.html>

Program

February 17 (Monday)

- 10:00-10:50 Ngô Quốc Anh (Vietnam National University, Hanoi / The University of Tokyo)
On sharp functional inequalities, stories from the work of Hardy-Littlewood-Sobolev
- 11:00-11:50 Yohei Fujisima (Shizuoka University)
Optimal singularities of initial functions for the solvability of a semilinear parabolic system
- 13:20-14:00 Motohiro Sobajima (Tokyo University of Science)
Higher order asymptotic expansion for abstract linear hyperbolic equations
- 14:10-14:30 Conghui Zhang (Tohoku University)
Formation of stable patterns for a reaction-diffusion-ODE system in a spatially heterogeneous environment
- 14:30-14:50 Yuka Teramoto (Tokyo Institute of Technology)
Hopf bifurcation in artificial compressible system for doubly diffusive convection
- 14:50-15:10 Kenta Nakamura (Tohoku University)
Global existence for the p -Sobolev flow
- 15:20-15:40 Takuya Sato (Tohoku University)
 L^2 -decay for the dissipative nonlinear Schrödinger equation with the critical power nonlinearity in the Gevrey class
- 15:40-16:00 Nobuhito Miyake (Tohoku University)
Existence of nontrivial positive solutions to the Cauchy problem for linear and semilinear biharmonic heat equation
- 16:00-16:20 Poster Preview
- 16:30-17:45 Poster Session (5F&6F Common Spaces, 3rd Science Building)
- 18:00- Banquet (Restaurant Elm)

February 18 (Tuesday)

- 10:00-10:50 Takahiro Hasebe (Hokkaido University)
Discrete eigenvalues of random matrices
- 11:00-11:50 Yasushi Taniuchi (Shinshu University)
Some logarithmic inequalities and the Navier-Stokes equations
- 13:30-14:00 Tatsu-Hiko Miura (Kyoto University)
Singular limit problem for the Navier-Stokes equations in a curved thin domain
- 14:00-14:20 Toshiaki Yachimura (Tohoku University)
On a Robin inverse eigenvalue problem related to thin coating problems

- 14:30-14:50 Yuki Tsukamoto (Tokyo Institute of Technology)
Existence of solutions for the prescribed anisotropic mean curvature equation
- 14:50-15:10 Kuniyasu Misu (Hokkaido University)
Asymptotic shape of solutions to the mean curvature flow equation with a discontinuous source term
- 15:10-15:30 Yuki Ueda (Hokkaido University)
Haagerup-Möller type limit theorems and free max-convolution
- 15:40-16:00 Poster Award Ceremony & Closing

Organizers : Hideo Kubo (Hokkaido University)
Norisuke Ioku (Tohoku University)
Jun Masamune (Hokkaido University)