The 22nd Northeastern Symposium on Mathematical Analysis

Date: 15–16, February, 2021

Program

February 15 (I	Mon.)
9:50 - 10:00	Opening
10:00 - 10:50	Kazuhiro Ishige (The University of Tokyo) When is quasi-concavity preserved by Dirichlet heat flow?
11:00 - 11:50	Keisuke Takasao (Kyoto University) On obstacle problem for Brakke's mean curvature flow
12:00 - 13:30	Lunch Break
13:30 - 13:50	Ryunosuke Mori (Tokyo Institute of Technology) Mathematical analysis of a reaction-diffusion model for Neolithic transition in Europe
13:50 - 14:10	Ryosuke Nakasato (Tohoku University) Global well-posedness for the Hall-MHD system in the critical Fourier-Besov
14:10 - 14:30	Koichi Komada (Tohoku University) Existence of blow-up solutions for quantum Zakharov system
14:45 - 15:05	Alexandra Gilsbach (Tokyo Institute of Technology) Stability analysis for Serrin's overdetermined problem
15:05 - 15:25	Philip Schrader (Tohoku University) Curve shortening by the gradient of a Sobolev-Riemannian metric
15:25 - 15:45	Michał Łasica (Polish Academy of Sciences / The University of Tokyo) Existence of the 1-harmonic map flow
16:00 - 16:20	Poster Preview

16:20 - 18:20 Poster Session

February 16 (Tue.)

10:00 - 10:50	Izumi Takagi (Tohoku University) Pattern formation in a non-uniform environment—A scenery in Turing's sight
11:00 - 11:30	Takiko Sasaki (National Institute of Technology, Ibaraki College / Tohoku University) Regularity of the blow-up curve at characteristic points for the nonlinear wave equation
11:40 - 12:10	Ikki Fukuda (Shinshu University) Effect of a fractional dispersion term on the asymptotic behavior of the solutions to the Burgers type equations
12:10 - 13:30	Lunch Break
13:30 - 14:20	Borislav Yordanov (Hokkaido University) Low frequency asymptotics for dissipative evolution equations in Banach spaces and application
14:30 - 15:00	Izumi Okada (Kyushu University) The heat equation with a dynamic Hardy-type potential
15:10 - 15:30	Asato Mukai (The University of Tokyo) Refined construction of type II blow-up solutions for semilinear heat equations with Joseph-Lundgren supercritical nonlinearity
15:30 - 15:50	Tomoyuki Oka (Tohoku University) Qualitative space-time homogenization for nonlinear diffusion equations
15:50 - 16:10	Yujiro Tateishi (The University of Tokyo) Decay estimates for Schrödinger heat semigroup with inverse square potential in Lorentz spaces
16:20 - 16:40	Poster Award Ceremony and Closing
19:30 -	Banquet

Organizers:

Satoshi Tanaka (Tohoku University) Nao Hamamuki (Hokkaido University) Shinya Okabe (Tohoku University) Kentaro Fujie (Tohoku University)