Qualitative properties for nonlinear diffusion equations

Period: January 22nd (Wednesday) 9:50   –   23rd (Thursday) 17:00

Place: Lecture Room 056, Graduate School of Mathematical Sciences,
Komaba 1 Campus, The university of Tokyo

January 22nd

9:50 – 10:00   opening

10:00 – 11:00   Matteo Bonforte (Universidad Autónoma de Madrid, Spain)
Nonlinear and nonlocal degenerate diffusions on bounded
domains I

11:20 – 12:20   Yoshikazu Giga (The University of Tokyo)
On total variation flow under dynamic boundary conditions

12:20 – 14:00   lunch

14:00 – 15:00   Goro Akagi (Tohoku University)
Exponential stability of traveling waves for a constrained
Allen-Cahn equation

15:20 – 16:00   Kotaro Hisa (Tohoku University)
Existence of solutions for an inhomogeneous fractional semilinear
heat equation

16:10 – 17:10   Eiji Yanagida (Tokyo Institute of Technology)
Singularities of solutions for the heat equation with
a dynamic Hardy potential

January 23rd

10:00 – 11:00   Matteo Bonforte (Universidad Autónoma de Madrid, Spain)
Nonlinear and nonlocal degenerate diffusions on bounded
domains II

11:20 – 12:20   Paolo Salani (Universitá di Firenze, Italy)
Around concavity properties and heat transfer

12:20 – 14:00   lunch

14:00 – 14:50   Asuka Takatsu (Tokyo Metropolitan University)
Elliptic and parabolic boundary value problems on rotationally
symmetric domains

15:00 – 15:50   Masahiko Shimojo (Okayama University of Science)
Blow-up of radially symmetric solutions for a semilinear heat equation
on hyperbolic space

16:00 – 16:50   Yohei Fujishima (Shizuoka University)
Optimal singularities of initial functions for the solvability of
a semilinear parabolic system

16:50 – 17:00   closing

Organizers:
Kazuhiro Ishige (The University of Tokyo)
Tatsuki Kawakami (Ryukoku University)
Yasuhito Miyamoto (The University of Tokyo)