

RIMS workshop

Theoretical Developments to Phenomenon Analyses based on Nonlinear Evolution Equations

RIMS Workshop on "Theoretical Developments to Phenomenon Analyses based on Nonlinear Evolution Equations" is going to take place at Research Institute of Mathematical Sciences, Kyoto University (RIMS). It is a great pleasure to invite you to participate in this workshop.

Date:	October 10 (Wed.) 13:00 – October 12 (Fri.) 12:00
Site:	Room 420 (4th floor), Research Institute of Mathematical Sciences
	(RIMS), Kyoto University
Organizer:	Ken Shirakawa, Chiba University, Japan

Program

October 10 (Wednesday)

13:00-13:45	Takashi Kagaya (Institute of Mathematics for Industry, Kyushu University) Singular limit problem for the Allen–Cahn equation with a zero Neumann boundary condition on non-convex domains
13:55-14:40	Tatsu-Hiko Miura (The University of Tokyo) Singular limit problem for the Navier–Stokes equations in a curved thin domain
15:00-15:45	Maho Endo (Waseda University) A free boundary problem for reaction diffusion equation with positive bistable nonlinearity
15:55-16:40	Hiroshi Matsuzawa (National Institute of Technology, Numazu College) A free boundary problem for nonlinear diffusion equations with a forced given moving boundary

October 11 (Thursday)

10:00-10:45	Motohiro Sobajima (Tokyo University of Science) Test function method for blowup of solutions to semilinear evolution equa- tions in sectorial domain
10:55-11:40	Takeshi Ohtsuka (Gunma University) Minimizing movement approach using level set functions for evolving spirals by crystalline curvature and eikonal equation
11:40-13:20	Lunch
13:20-14:05	Shuji Yoshikawa (Oita University) Small data global existence and unconditional error estimate for structure- preserving numerical schemes
14:15-15:00	Kei Fong Lam (The Chinese University of Hong Kong) On a coupled bulk-surface Allen–Cahn system with affine linear transmis- sion conditions
15:10-15:55	Salvador Moll (University of Valencia) The constrained total variation flow
16:05-16:50	Shuichi Kawashima (Waseda University) Mathematical analysis for a model system of complex fluids

October 12 (Friday)

10:00-10:45	Kota Kumazaki (Nagasaki University) A moving boundary problem describing swelling of a pocket of water along a halfline
10:55–11:40	Michinori Ishiwata (Osaka University) On the soliton decomposition of solutions for the energy critical parabolic equation