RIMS Workshop

on

Mathematical Analysis in Fluid and Gas Dynamics

Organizers Takayuki Kobayashi (Osaka University) Tatsuo Iguchi (Keio University)

Date : from July 8 to 10, 2015

Venue: RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 8	
$14:00 \sim 14:50$	Tetsu Mizumachi (Hiroshima University) On stability of line solitons for the KP-II equation
$15:00\sim15:50$	Bongsuk Kwon (UNIST, Korea) Transition fronts in Cahn-Hilliard systems
$16: 10 \sim 17: 00$	Hiroaki Yoshida (Toyota Central R&D Labs.) Analysis of electro-osmotic flows in micro-channels with undulated surfaces
Thursday, July 9	
$10:00\sim 10:50$	Tsuyoshi Yoneda (Tokyo Inst. Tech.) Loss of continuity of the solution map for the Euler equations using large Lagrangian deformation.
$11:00\sim11:30$	Kazuyuki Tsuda (Kyushu University) Time-periodic problem for the compressible Navier-Stokes-Korteweg system on ${\bf R}^3$

$11:40 \sim 12:10$	Hirokazu Saito (Waseda University) Global solvability of the Navier-Stokes equations with a free surface
$14:00 \sim 14:50$	Taku Yanagisawa (Nara Women's University) On the stability of stationary solutions to the MHD equations with large boundary data
$15:00 \sim 15:50$	Cheng-Jie Liu (City University of Hong Kong, China) Some results on the three-dimensional Prandtl equations and boundary layers of compressible fluids
$16: 10 \sim 17: 00$	Yoshihiro Shibata (Waseda University) On the two-phase problem of viscous fluid
Friday, July 10	
$10:00\sim 10:50$	Daisuke Tagami (Kyushu University) Some investigations into finite element methods for viscoelastic flow problems
$11:00 \sim 11:50$	Makoto Iima (Hiroshima University) Spatially localized patterns of bioconvection generated by collective photomovement of Euglena gracilis
$13:30 \sim 14:00$	Noboru Chikami (Tohoku University) On the solvability of Navier-Stokes-Poisson system in two and higher dimension
$14: 10 \sim 14: 40$	Naofumi Mori (Tohoku University) Global existence and optimal decay rates of solutions to the classical Timoshenko system in the framework of Besov spaces
$14:50 \sim 15:40$	Yoshitaka Yamamoto (Osaka University) Existence of unbounded solutions to the isentropic p -system with a self-gravitational term