RIMS Workshop

on

Mathematical Analysis in Fluid and Gas Dynamics

Organizers Takayuki Kobayashi (Osaka University)
Tohru Nakamura

(Kumamoto University)

Date: from July 5 to 7, 2017

Venue: RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 5	
$14:00 \sim 14:50$	Michael Růžička (University of Freiburg) On electrorheological fluids
$15:00\sim15:50$	Nobu Kishimoto (Kyoto University) Remark on global regularity for the rotating Navier-Stokes equations in a periodic domain
$16:10\sim17:00$	Masahito Suzuki (Nagoya Inst. Tech.) Bifurcation analysis of an equation for gas discharge
Thursday, July 6	
$10:00\sim 10:50$	Yaguang Wang (Shanghai Jiao Tong University) On thermal layers in compressible flows
$11:00\sim11:30$	Kengo Nakai (The University of Tokyo) Direction of vorticity and a refined blow-up criterion for the Navier-Stokes equations with fractional Laplacian
$11:40 \sim 12:10$	Kai Koike (Keio University) Wall effect on the motion of a rigid body immersed in a free molecular flow

$14:00 \sim 14:50$	Eduard Feireisl (Czech Academy of Sciences) Measure-valued solutions for problems in fluid mechanics
$15:00\sim15:50$	Hirokazu Saito (Waseda University) On a compressible fluid model of Korteweg type
$16: 10 \sim 17: 00$	Yoshihiro Shibata (Waseda University, Pittuburgh University) Two phase problem for the Navier-Stokes equation
Friday, July 7	
$10:00\sim 10:50$	Paolo Antonelli (Gran Sasso Sci. Inst.) Global existence results for finite energy weak solutions to a class of Quantum Hydrodynamic systems
$11:00\sim11:50$	Itsuko Hashimoto (Kansai University, Osaka City University) Classification of asymptotic states for radially symmetric solutions of multi-dimensional Burgers equation
$14:00 \sim 14:30$	Yuka Teramoto (Kyushu University) Bifurcation of Taylor vortex for compressible Navier-Stokes equations
$14:40 \sim 15:30$	Naoki Tsuge (Gifu University) Global entropy solutions to the compressible Euler equations in the isentropic nozzle flow for large data: Application of the generalized invariant regions and the modified Godunov scheme

