RIMS Workshop

on

Mathematical Analysis in Fluid and Gas Dynamics

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

Date : from July 10 to 12, 2013
Venue : RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 10

$14:00 \sim 14:50$ Jiang Xu (Nanjing University of Aeronautics and Astronautics, China)
The relaxation limit in Besov spaces for compressible Euler equations

$15:00 \sim 15:30$ Yoshihiro Ueda (Kobe University)
Asymptotic stability of stationary solutions for the non-isentropic Euler-Maxwell system

$16:10 \sim 17:00$ Masakazu Kato (Muroran Institute of Technology)
Stability of solitary waves for the coupled BBM equations

Thursday, July 11

$10:00 \sim 10:50$ Yasushi Taniuchi (Shinshu University)
Uniqueness of solutions bounded on the whole time axis to the Navier-Stokes equations in unbounded domains

$11:00 \sim 11:50$ Erika Ushikoshi (Tamagawa University)
New approach to the Hadamard variational formula for the Green function of the Stokes equations

12 : 00 ∼ 12 : 30   Ken Abe (University of Tokyo)
Resolvent estimates for the Stokes equations in spaces of bounded functions

14 : 10 ∼ 14 : 40   Hirokazu Saito (Waseda University)
On some decay property for Stokes equations with surface tension in half space

14 : 50 ∼ 15 : 40   Morimichi Umehara (University of Miyazaki)
Free-boundary problem of the equations for flows of viscous heat-conducting and self-gravitating gas

16 : 00 ∼ 16 : 50   Tetu Makino (Yamaguchi University)
On an application of Nash-Moser theory to the vacuum boundary problem of gas dynamics

Friday, July 12

10 : 00 ∼ 10 : 50   Shingo Kosuge (Kyoto University)
Numerical analysis of Io's atmosphere based on a model Boltzmann equation: Unsteady behavior during eclipse

11 : 00 ∼ 11 : 50   Tetsuro Tsuji (Osaka University)
Numerical analysis of moving boundary problems in rarefied gas dynamics

13 : 40 ∼ 14 : 30   Itsuko Hashimoto (Toyama National Callege of Technology)
Asymptotic stability for viscous conservation law on the half line and its application

14 : 40 ∼ 15 : 30   Yoshinori Morimoto (Kyoto University) and Tong Yang (City University of Hong Kong)
Local solutions with polynomial decay in the velocity variables to the Boltzmann equation for soft potentials