RIMS Workshop

on

Mathematical Analysis in Fluid and Gas Dynamics

Organizers Takayuki Kobayashi (Saga University)
Shinya Nishibata

(Tokyo Institute of Technology)

Date: from July 6 to 8, 2011

Venue: RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 6	
14:00~14:50	Toshiaki Hishida (Nagoya University) Resolution of the Stokes paradox by the rotation of bodies in the plane
15:00~15:50	Takahiro Okabe (Tohoku University) Lower bound of L^2 decay of the Navier-Stokes flow in the half space \mathbb{R}^n_+
16:10~17:00	Okihiro Sawada (Gifu University) Mild solutions to the Navier-Stokes equations in unbounded domains with unbounded boundary
Thursday, July 7	
10:00~10:50	Hideyuki Miura (Osaka University) Fundamental solutions of diffusion equations related to certain Dirichlet forms and the quasi-geostrophic equation
11:00~11:50	Hirofumi Notsu (Waseda University) Numerical schemes for flow problems based on the method of characteristics

12:00~12:30	Hitoshi Funagane (Kyoto University) Poiseuille and thermal transpiration flows of a highly rarefied gas
14:00~14:50	Yongqian Zhang (Fudan University) On the steady supersonic flow past a curved cone
15:00~15:50	Yoshihiro Ueda (Kobe University) Decay structure of regularity-loss type for symmetric hyperbolic systems with relaxation
16:10~17:00	Kenji Nishihara (Waseda University) Critical exponent for semilinear wave equation with time-dependent damping
Friday, July 8	
10:00~10:50	Tatsuo Iguchi (Keio University) Shallow water approximations for water waves over a moving bottom
11:00~11:50	Kohei Soga (Waseda University) Continuous limit of random walks and its application to approximation of nonlinear PDEs
12:00~12:30	Mamoru Okamoto (Kyoto University) Well-posedness of the Maxwell-Dirac system in $1+1$ space time dimensions
$14:00 \sim 14:50$	Tohru Nakamura (Kyushu University) Asymptotic stability of stationary waves for symmetric hyperbolic- parabolic system in half space
$15:00\sim15:50$	Toshitaka Nagai (Hiroshima University) A parabolic-elliptic system of drift-diffusion type in \mathbb{R}^2 for the subcritical case