RIMS Workshop
on
Mathematical Analysis in Fluid and Gas Dynamics
Organizers
Shinya Nishibata
(Tokyo Institute of Technology)
Yoshiyuki Kagei
(Kyushu University)

Date: from July 8 to 10 2009
Venue: Kyodaikaikan, Room No. 210

Program

Wednesday, July 8

14:00–14:50 Masaru Yamaguchi (Tokai Univ.)
Periodic oscillations of a linear wave equation with small time-periodic potentials

15:00–15:50 Ryo Ikehata (Hiroshima Univ.)
Decay estimates of the energy for wave equations with a critical potential

16:10–17:00 Shugo Yasuda (Kyoto Univ.)
Viscoelastic behavior of polymer melt in rapidly oscillating plates: an application of multiscale modeling

Thursday, July 9

10:00–10:50 Kenji Nishihara (Waseda Univ.)
Asymptotic behavior of solutions for the damped wave equation with absorbing semilinear term

11:00–11:50 Shigeru Takata (Kyoto Univ.)
Symmetry of the linearized Boltzmann equation
14:00-14:50  Mei Ming (Champlain College & McGill University)
Best asymptotic profile for hyperbolic p-System with damping

15:00-15:50  Tohru Nakamura (Kyusyu Univ.)
Stationary waves for viscous heat-conductive fluid in half space

16:10-17:00  Akitaka Matsumura (Osaka Univ.)
A remark on global weak solution in time for a system of compressible viscous fluid with large external potential force

Friday, July 10

10:00-10:50  Hideyuki Miura (Osaka Univ.)
Landau solutions for incompressible Navier-Stokes equations and applications

11:00-11:30  Yuka Naito (Waseda Univ.)
On the Stokes and Navier-Stokes equations with Robin boundary condition in a perturbed half space

11:40-12:10  Naoto Nakano (Keio Univ.)
On motion of inhomogeneous incompressible fluid-like bodies with Navier’s slip conditions

14:00-14:50  Yasunori Maekawa (Kobe Univ.)
Three dimensional stability of the Burgers vortex

15:00-15:30  Ryo Takada (Tohoku Univ.)
Nonexistence of backward self-similar weak solutions to the Euler equations

14:40-15:30  Tai-Ping Liu (Academia Sinica and Stanford Univ.)
Stability of Viscous Shock Waves