RIMS Workshop

on

Mathematical Analysis in Fluid and Gas Dynamics

Organizers Yoshiyuki Kagei (Kyushu University) Shuichi Kawashima (Kyushu University)

Date: from July 7 to 9, 2004

Venue: RIMS, Kyoto University, Room No. 420

Program

Wednesday July 7	
14:00~14:50	Tatsuo Iguchi (Tokyo Inst. Tech.) A long wave approximation for capillary-gravity waves and an effect of the bottom
15:00~15:50	Yoshikazu Giga (Hokkaido Univ.) Katsuya Inui (Hokkaido Univ.) Alex Mahalov (Arizona State Univ.) Shin'ya Matsui (Hokkaido Information Univ.) Rotating Navier-Stokes equations with initial data nondecreasing at infinity
16:10~17:00	Yoshihiro Shibata (Waseda Univ.) Senjo Shimizu (Shizuoka Univ.) On the Stokes equations with Neumann boundary condition
Thursday, July 8	
10:00~10:50	Hailiang Li (Capital Normal Univ., China; Osaka Univ.) Asymptotic behavior of Euler-Poisson System
11:00~11:50	Sadayoshi Toh (Kyoto Univ.) Takeshi Matsumoto (Kyoto Univ.) Yoshiyuki Yamada (Kyoto Univ.) Hisashi Miyashita (IBM Tokyo Research Laboratory) A double-exponentially growing solution of the two-dimensional ideal Boussinesq equations: its further evolution stages and response to disturbances

13:30~14:20	J. E. Muñoz Rivera (National Laboratory for Scientific Computation, Brazil) About mathematical models with weak dissipation
14:30~15:20	Masakatsu Murakami (Osaka Univ.) Two-dimensional eigenvalue problem for trans-sonic flow with energy dissipation - a new self-similar solution and convective instability -
15:40~16:30	Seiji Ukai (Yokohama National Univ.) Tong Yang (City University of Hong Kong) Huijiang Zhao (Chinese Academy of Sciences; Waseda Univ.) Global solutions of the Boltzmann equation with the external force
Friday, July 9	
10:00~10:50	Naoyasu Kita (Miyazaki Univ.) Mode generating effect of fluid phenomena governed by nonlinear Schrödinger equations
11:00~11:50	Shin-Ichiro Ei (Kyushu Univ.) Dynamics of Turing patterns in cylindrical domains on 2D
13:10~14:00	Toshiyuki Ogawa (Osaka Univ.) Bifurcation analysis to Rayleigh-Bénard convection at degenerate critical points
14:10~15:00	Yoshitaka Yamamoto (Osaka Univ.) The Jeans instability for a one-dimensional model system of compressible viscous fluids
15:10~16:00	Shinya Nishibata (Tokyo Inst. Tech.) Large-time behavior of spherically symmetric flow for viscous heat-conductive gas