RIMS Workshop

on

Mathematical Analysis in Fluid and Gas Dynamics

Organizers Yoshiyuki Kagei (Kyushu University) Shinya Nishibata (Tokyo Institute of Technology)

Date: from July 9 to 11, 2008

Venue: RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 9	
14:00~14:50	Jing Li (Osaka University & AMSS, Academia Sinica) Asymptotic Stability of Combination of Viscous Contact Wave with Rarefaction Waves for 1-D Compressible Navier-Stokes Sys- tem
15:00~15:50	Hirotada Honda (Keio University , NTT East Corporation) Small-time Solvability of Primitive Equations of Coupled Atmosphere and Ocean
16:10~17:00	Shuichi Kawashima (Kyushu University) A Hardy type inequality and application to the stability of degenerate stationary waves
Thursday , July 10	
10:00~10:50	Fumioki Asakura (Osaka Electro-Communication University) Viscous Shock Profiles for 2×2 Systems of Hyperbolic Conservation Laws with Quadratic Flux Functions
11:00~11:50	Kenji Nishihara (Waseda University) Location of the asymptotic profile for one-dimensional chemotax system

12:00~12:30	Takahiro Okabe (Tohoku University) Asymptotic Energy Concentration in the phase space of weak solutions to the Navier-Stokes equations
14:00~14:50	Tatsuo Iguchi (Keio University) Shallow water approximations for water waves
15:00~15:50	Makoto Iima (Hokkaido University) Analysis of hovering insect in two-dimensional space
16:10~17:00	Yoshihiro Shibata (Waseda University), Senjo Shimizu (Shizuoka University) On the free boundary problem for the Navier-Stokes equations in the L_p framework
Friday , July 11	
10:00~10:50	Masahiro Suzuki (Tokyo Institute of Technology) Relaxation limit and initial layer to heat-conductive hydrodynamic models for semiconductors
11:00~11:50	Yoshinori Morimoto (Kyoto University), Zhaohui Huo, Seiji Ukai, Tong Yang (City University of Hong Kong) Regularity of solutions for spatially homogeneous Boltzmann equa- tion without angular cutoff (non Maxwellian molecule type)
12:00~12:30	Kohei Soga (Waseda University), Takaaki Nishida (Waseda University) Periodic Solutions of Forced Burgers Equation
14:00~14:50	Satoshi Taguchi (Kobe University) Rarefied gas flows through an in-line array of circular cylinders
15:00~15:50	Jae Ryong Kweon (Pohang University of Science and Technology) A survey of corner singularity for compressible viscous Navier-Stokes flows