RIMS Workshop

on

Mathematical Analysis in Fluid and Gas Dynamics

Organizers   Shinya Nishibata
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Date   from July 11 to 13 2007
Venue   RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 11

14 00 14 50   Kenji Nakanishi (Kyoto Univ.)
Global behavior of solutions for the Gross-Pitaevskii equation

15 00 15 50   Hideyuki Miura (Kyoto Univ.)
Remark on decay estimates for solutions to the critical dissipative
quasi-geostrophic equations

16 00 16 50   Soichiro Katayama (Wakayama Univ.)
A new approach to the null condition for nonlinear wave equations

17 00 17 50   Makoto Hirota (Kyushu Univ.)
Spectrum and energy of waves in mean shear flows

Thursday, July 12

10 00 10 50   Norikazu Yamaguchi (Waseda Univ.)
On a Stokes approximation of two dimensional Oseen flow near
the boundary

11 00 11 50   Takayuki Kubo (Waseda Univ.)
Navier-Stokes flow in an aperture domain

14	00	14	50	Ha Seung-Yeal (Seoul National Univ.) L^2-stability theory for the space-inhomogeneous Boltzmann equation near a global maxwellian
15	00	15	50	Hiroshi Sugimoto (Kyoto Univ.) Rarefied gas flows induced by temperature fields and their applications
16	10	17	00	Takeru Yano (Hokkaido Univ.) Steady solution of the Boltzmann equation for evaporation and condensation on a planar interface with a general boundary condition

Friday, July 13

10	00	10	50	Jing Li (Osaka Univ.) Vanishing of vacuum of the compressible Navier-Stokes equations
11	00	11	30	Morimichi Umehara, Atusi Tani (Keio Univ.) Global solvability and some uniform-in-time bounds of the solution for self-gravitating viscous stellar models
11	40	12	10	Masakazu Kato (Osaka Univ.) Sharp asymptotics for the generalized Burgers equations
13	50	14	20	Tomoyuki Suzuki (Osaka Univ.) On regularity of suitable weak solutions to the Navier-Stokes equations in unbounded domains
14	30	15	00	Naoto Nakano (Keio Univ.) An initial-boundary value problem for motion of incompressible inhomogeneous fluid-like bodies
15	10	16	00	Tetsuro Miyakawa (Kanazawa Univ.) On weighted estimates for the Navier-Stokes flows over a 3-dimensional exterior domain