

RIMS Workshop
on
Mathematical Analysis in Fluid and Gas Dynamics

Organizers Tatsuo Iguchi
 (Keio University)
 Yoshiyuki Kagei
 (Kyushu University)

Date : from July 4 to 6, 2012

Venue : RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 4

- 14 : 00 ~ 14 : 50 Yasunori Maekawa (Kobe University)
 On zero viscosity limit for the viscous incompressible flows in the
 half plane
- 15 : 00 ~ 15 : 30 Hajime Koba (Tokyo University)
 Asymptotic stability for a geophysical system
- 15 : 50 ~ 16 : 40 Tsukasa Iwabuchi (Chuo University)
 Global solutions for the Navier-Stokes equations in the rotational
 framework

Thursday, July 5

- 10 : 00 ~ 10 : 50 David Lannes (ENS Paris)
 A stability criterion for two fluids interfaces
- 11 : 00 ~ 11 : 50 Shigeru Takata (Kyoto University)
 Singular behavior of a rarefied gas on a planar boundary
- 13 : 30 ~ 14 : 00 Shintaro Kondo (Keio University)
 Initial boundary value problem for model equations of resistive
 drift wave turbulence with Stepanov-almost-periodic initial data

- 14 : 10 ~ 14 : 40 Jan Brezina (Kyushu University)
Asymptotic behavior of solutions of the compressible Navier-Stokes equation around time-periodic parallel flow
- 15 : 00 ~ 15 : 50 Xiangdi Huang (Osaka University/Academy of Mathematics and Systems Sciences, China)
Global classical and weak solutions to the three-dimensional full compressible Navier-Stokes system with vacuum and large oscillations
- 16 : 00 ~ 16 : 50 Takaaki Nishida (Emeritus of Kyoto University)
Heat convection problems of compressible viscous fluids

Friday, July 6

- 10 : 00 ~ 10 : 50 Norikazu Yamaguchi (Toyama University)
Mathematical justification of the penalty method for viscous incompressible fluid flow
- 11 : 00 ~ 11 : 50 Takashi Sakajo (Hokkaido University)
Enstrophy dissipation through triple collapse of Euler-alpha point vortices
- 13 : 30 ~ 14 : 00 Masashi Aiki (Keio University)
Motion of a vortex filament with axial flow in the half space
- 14 : 10 ~ 14 : 40 Masashi Ohnawa (Tokyo Institute of Technology/Waseda University)
Convergence rates towards traveling waves for a model system of radiating gas
- 15 : 00 ~ 15 : 50 Naoki Tsuge (Gifu University)
Existence of global solutions for unsteady isentropic gas flow in a Laval nozzle