

RIMS Workshop
on
Mathematical Analysis in Fluid and Gas Dynamics

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

Date : from July 7 to 9, 2010

Venue : RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 7

- 14 : 00 ~ 14 : 50 Takayuki Kubo (University of Tsukuba)
 Weighted $L^p - L^q$ estimate for the Stokes semigroup in half-space
 and perturbed half-space
- 15 : 00 ~ 15 : 50 Naoki Tsuge (Gifu University)
 Existence and uniqueness of stationary solutions to a one-dimensional
 bipolar hydrodynamic models of semiconductors
- 16 : 10 ~ 17 : 00 Hiroshi Ohtsuka (University of Miyazaki)
 On some variational problems relating to vortices

Thursday , July 8

- 10 : 00 ~ 10 : 50 Satoshi Masaki (Gakushuin University)
 Semiclassical limit of nonlinear Schrödinger-Poisson system and
 classical limit of quantum Euler-Poisson equations
- 11 : 00 ~ 11 : 30 Erika Ushikoshi (Tohoku University)
 The Hadamard variational formula for the Green matrix of the
 Stokes equations

- 11 : 40 ~ 12 : 10 Masashi Aiki (Keio University)
Motion of a vortex filament in the half space
- 14 : 00 ~ 14 : 50 Senjo Shimizu (Shizuoka University)
On a local in time solvability of incompressible two-phase flows with phase transition
- 15 : 00 ~ 15 : 50 Marcus Wunsch (Kyoto University)
Global weak solutions to the generalized Proudman-Johnson equation
- 16 : 10 ~ 17 : 00 Shuichi Kawashima (Kyushu University)
Decay property for some hyperbolic-type equations with dissipation

Friday , July 9

- 10 : 00 ~ 10 : 50 Itsuko Kai (Kanazawa University)
Weighted energy estimates for viscous conservation law with non-convex flux and its applications
- 11 : 00 ~ 11 : 50 Yoshihiro Tonegawa (Hokkaido University)
On the time-global existence for non-Newtonian two-phase flow with different densities
- 12 : 00 ~ 12 : 30 Masasi Ohnawa, Masahiro Suzuki, Shinya Nishibata (Tokyo Institute of Technology)
Asymptotic behavior of solutions to the Euler-Poisson equations arising in plasma physics
- 14 : 00 ~ 14 : 50 Yasunori Maekawa (Kobe University)
On the a priori estimates for axisymmetric solutions to the Navier-Stokes equations
- 15 : 00 ~ 15 : 50 Hisashi Okamoto (Kyoto University)
On the Stokes drift