Second Japan-China Workshop on Mathematical Topics from Fluid Mechanics

November 16–18, 2009

Kyushu University Nishijin Plaza, Fukuoka, Japan

November 16 (Mon)

10:00∼10:10   Opening : Shuichi Kawashima

10:10∼10:40   Shu Wang (*Beijing University of Technology*)
On the singularity formation of a 3D model for Incompressible Euler and Navier-Stokes equations

10:50∼11:20   Norikazu Yamaguchi (*Toyama University*)
On a stability of the MHD flow in 3D bounded domain

11:30∼12:00   Takayuki Kubo (*Tsukuba University*)
Stability theorem for the stationary solution to Navier-Stokes equations in half-space

15:10∼15:40   Naoki Tsuge (*Gifu University*)
Existence and large time behavior of solutions to compressible Euler equations

16:00∼16:30   Tohru Nakamura (*Kyushu University*)
Asymptotic stability of stationary waves for viscous heat-conductive gases in half line

16:40∼17:10   Zhenhua Guo (*Northwest University*)
Lagrange structure and large time behavior of solutions for spherically symmetric compressible Navier-Stokes equations

November 17 (Tue)

10:00∼10:30   Qiangchang Ju (*Beijing Institute of Applied Physics and Computational Mathematics*)
The incompressible and inviscid limit of the compressible magnetohydrodynamic equations

10:40∼11:10   Hideyuki Miura (*Osaka University*)
Point singularities of 3D stationary Navier-Stokes flows

11:20∼11:50   Jianwen Zhang (*Xiamen University*)
Boundary-layer effects for the 2-D Boussinesq equations with vanishing diffusivity limit in the half plane

14:30∼15:00   Masahiro Suzuki (*Tokyo Institute of Technology*)
Stationary solutions for the Euler-Poisson equations arising in plasma physics

15:10∼15:40   Jing Li (*Academy of Mathematics and Systems Sciences*)
Asymptotic stability of combination of viscous contact wave with rarefaction waves for 1-D compressible Navier-Stokes system

16:00∼16:30 Naoto Nakano (*Keio University*)
Mathematical analysis of a continuum model for a flow of granular materials

16:40∼17:10 Song Jiang (*Beijing Institute of Applied Physics and Computational Mathematics*)
Blow-up criteria for the Navier-Stokes equations of multidimensional compressible fluids

November 18 (Wed)

10:00∼10:30 Yoshihiro Ueda (*Tohoku University*)
Application of the anti-derivative method to the half space problem for damped wave equation with non-convex convection term

10:40∼11:10 Feimin Huang (*Academy of Mathematics and System Sciences*)
Large time behavior of solutions for compressible Navier-Stokes equations

11:20∼11:50 Yongqin Liu (*Kyushu University*)
Global existence and asymptotic behavior of solutions for quasi-linear dissipative plate equation

14:30∼15:00 Masakazu Kato (*Muroran Institute of Technology*)
Large time behavior of solutions to the generalized Burgers equations with slowly decaying data

15:10∼15:40 Tianhong Li (*Academy of Mathematics and Systems Sciences*)
Further development in Young measures as probability distributions of Loeb spaces

16:00∼16:30 Tatsuo Iguchi (*Keio University*)
A mathematical analysis of tsunami generation in shallow water due to seabed deformation

16:30∼ Closing : Song Jiang

Organizing Committee

Feimin Huang (*Academy of Mathematics and System Sciences, CAS*)

Song Jiang (Co-chair, *Institute of Applied Physics and Computational Mathematics*)

Yoshiyuki Kagei (*Kyushu University*)

Shuichi Kawashima (Co-chair, *Kyushu University*)

Takayuki Kobayashi (*Saga University*)

Hailiang Li (*Capital Normal University*)

Shinya Nishibata (*Tokyo Institute of Technology*)

Changjiang Zhu (*Central China Normal University*)

Sponsors