

RIMS Workshop
on
Mathematical Analysis in Fluid and Gas Dynamics

Organizers Tatsuo Iguchi
 (Keio University)
 Takayuki Kobayashi
 (Osaka University)

Date : from July 2 to 4, 2014

Venue : RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 2

- 14 : 00 ~ 14 : 50 Kenji Nakanishi (Kyoto University)
Multi-frequency NLS limit for a model equation of gravity-capillary waves
- 15 : 00 ~ 15 : 30 Yohei Yamazaki (Kyoto University)
Stability of line standing waves near the bifurcation point for a nonlinear Schrödinger equation
- 15 : 50 ~ 16 : 40 Shih-Hsien Yu (National University of Singapore)
Duality in Boltzmann equation and its applications

Thursday, July 3

- 10 : 00 ~ 10 : 50 Takahiro Okabe (Hirosaki University)
Space-time asymptotics of the 2D Navier-Stokes flow in the whole plane
- 11 : 00 ~ 11 : 50 Denys Dutykh (Université de Savoie)
Application of variational principles to water wave modelling

- 13 : 30 ~ 14 : 00 Hiroki Ueno (Keio University)
On the thin film approximation for the flow of a viscous incompressible fluid down an inclined plane
- 14 : 10 ~ 14 : 40 Masanari Hattori (Kyoto University)
Generalized slip-flow theory and its related Knudsen-layer analysis for a slightly rarefied gas I
- 15 : 00 ~ 15 : 50 Satoshi Taguchi (The University of Electro-Communications)
Asymptotic theory of a rarefied gas flow past a sphere at low Mach numbers
- 16 : 00 ~ 16 : 50 Hayato Nawa (Meiji University)
Toward a mathematical theory of turbulence

Friday, July 4

- 10 : 00 ~ 10 : 50 Thomas Alazard (ENS Paris)
On the Cauchy problem for the gravity water-waves equations
- 11 : 00 ~ 11 : 50 Tohru Nakamura (Kyushu University)
Stationary wave to system of viscous conservation laws in half line
- 13 : 30 ~ 14 : 00 Masatoshi Okita (Kyushu University)
On decay estimate of strong solutions in critical spaces for the compressible Navier-Stokes equations
- 14 : 10 ~ 14 : 40 Kazuyuki Tsuda (Kyushu University)
Time-periodic problem for the compressible Navier-Stokes equation on the whole space
- 15 : 00 ~ 15 : 50 Natsumi Yoshida (Osaka City University)
Large time behavior of solutions toward a multiwave pattern for the Cauchy problem of the scalar conservation law with degenerate flux and viscosity