

RIMS Workshop
on
Mathematical Analysis in Fluid and Gas Dynamics

Organizers Tatsuo Iguchi
 (Keio University)
 Yoshihiro Ueda
 (Kobe University)

Date : from July 4 to 6, 2018

Venue : RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 4

- 14 : 00 ~ 14 : 50 Yasunori Maekawa (Kyoto University)
 On inviscid limit around shear boundary layers for the steady
 Navier–Stokes equations
- 15 : 00 ~ 15 : 30 Shota Sakamoto (Tohoku University)
 Global solution to the Boltzmann equation in a velocity-weighted
 Chemin–Lerner type space
- 15 : 50 ~ 16 : 40 Shih-Hsien Yu (National University of Singapore)
 Green’s function of compressible Navier–Stokes around a hyper-
 bolic contact discontinuity

Thursday, July 5

- 10 : 00 ~ 10 : 50 Takayuki Kubo (University of Tsukuba)
 Analysis of non-stationary Navier–Stokes equations approximated
 by the pressure stabilization method
- 11 : 00 ~ 11 : 30 Zhang Xin (Waseda University)
 On the solvability of some inhomogeneous incompressible flow
 with free interface

- 11 : 40 ~ 12 : 10 Takeshi Gotoda (Hokkaido University)
Singular vortex dynamics on filtered Euler flows
- 14 : 00 ~ 14 : 50 Chunjing Xie (Shanghai Jiao Tong University)
Stability of steady solutions for the Euler–Poisson system in bounded domains
- 15 : 00 ~ 15 : 50 Mark Groves (Universität des Saarlandes)
Fully localised solitary gravity-capillary water waves
- 16 : 10 ~ 17 : 00 Toshiaki Hishida (Nagoya University)
 L^q - L^r estimate of a generalized Oseen evolution operator, with applications to the Navier–Stokes flow past a rotating obstacle

Friday, July 6

- 10 : 00 ~ 10 : 50 Masashi Aiki (Tokyo University of Science)
On the existence of leapfrogging pair of coaxial circular vortex filaments
- 11 : 00 ~ 11 : 50 Snorre Christiansen (University of Oslo)
Finite element complexes for the Stokes equation
- 13 : 40 ~ 14 : 30 Ryo Takada (Kyushu University)
Strongly stratified limit for the 3D inviscid Boussinesq equations
- 14 : 40 ~ 15 : 30 Tohru Nakamura (Kumamoto University)
Viscous shock wave and singular limit for some hyperbolic system with relaxation

