

RIMS Workshop  
on  
Mathematical Analysis in Fluid and Gas Dynamics

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

Date : from July 6 to 8, 2016

Venue : RIMS, Kyoto University, Room No. 420

Program

Wednesday, July 6

- 14 : 00 ~ 14 : 50      Yoshiyuki Kagei (Kyushu University)  
                          On the spectrum of linear artificial compressible system
- 15 : 00 ~ 15 : 30      Tsubasa Itoh (Tokyo Inst. Tech.)  
                          The growth of the vorticity gradient for the two-dimensional Euler flows on nonsmooth domains
- 15 : 50 ~ 16 : 40      Yasunori Maekawa (Kyoto University)  
                          On Prandtl expansion for the Navier–Stokes equations in the half plane

Thursday, July 7

- 10 : 00 ~ 10 : 50      Juhi Jang (University of Southern California)  
                          Dynamics of expanding gas
- 11 : 00 ~ 11 : 30      Mitsuo Higaki (Kyoto University)  
                          Navier wall law for nonstationary viscous incompressible flows
- 11 : 40 ~ 12 : 10      Abulizi Aihaiti (Kyushu University)  
                          Large time behavior of solutions to the compressible Navier–Stokes equations in an infinite layer under slip boundary condition

- 14 : 00 ~ 14 : 50 Masahiro Takayama (Keio University)  
Initial boundary value problem for the equation of suspended string
- 15 : 00 ~ 15 : 50 Yoshimasa Matsuno (Yamaguchi University)  
Green–Naghdi and related models for shallow water waves
- 16 : 10 ~ 17 : 00 Walter Craig (McMaster University)  
Normal forms for the equations of water waves

Friday, July 8

- 10 : 00 ~ 10 : 50 Hirotsada Honda (NTT)  
Mathematical analysis of Kuramoto–Sakaguchi equation
- 11 : 00 ~ 11 : 50 Shugo Yasuda (University of Hyogo)  
Numerical analysis of the traveling wave on the kinetic chemo-taxis model
- 13 : 40 ~ 14 : 30 I-Kun Chen (Kyoto University)  
Regularity of stationary solutions to the linearized Boltzmann equations
- 14 : 40 ~ 15 : 30 Kung-Chien Wu (National Cheng Kung University)  
Nonlinear stability of the 1D-Boltzmann Equation in a periodic box

