

Mathematics and Physics Unit “Multiscale Analysis, Modelling and Simulation”
Top Global University Project, Waseda University

Waseda Workshop on Partial Differential Equations 2019 – December

Date: December 17, 2019

Venue: Meeting Room, Bldg. 62, Nishi-waseda Campus, Waseda University

早稲田大学 西早稲田キャンパス 62号館 W棟 1階 大会議室

10:00 – 11:00 Pierangelo Marcati (GSSI: Gran Sasso Science Institute)

Splash Singularities for a General Oldroyd-B Model for Viscoelastic Fluids

11:10 – 12:10 Jiang Xu (Nanjing University of Aeronautics and Astronautics)

Fourier analysis methods and dissipative PDEs

(Lunch time)

14:00 – 14:30 Yukihiro Suzuki (Waseda University)

A GENERIC formalism for complex fluids with Cattaneo heat flux

14:40 – 15:10 Kenta Nakamura (Tohoku University)

On the asymptotic stability of rarefaction waves for hyperbolic systems
of balance laws

(Coffee break)

15:30 – 16:00 Fumitaka Wakabayashi (Waseda University : D1)

Removability of moving singularities in the Stokes and Navier-Stokes equations

16:10 – 16:40 Naofumi Mori (Tokyo University of Marine Science and Technology)

Global existence and asymptotic decay of solutions to a complex fluid
system in 1D

(Coffee break)

17:00 – 17:30 Ryosuke Nakasato (Tohoku University : D2)

Global well-posedness and time-decay estimates for the compressible
hall-magnetohydrodynamic system in L^2 Besov framework

17:40 – 18:10 Xin Zhang (Waseda University)

The \mathcal{R} -bounded operator families arising from the study of the barotropic
compressible flows with free surface

(18:20 – Reception)

Organized by Yoshihiro Shibata, Shuichi Kawashima, Hideo Kozono, Tohru Ozawa

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