

German-Japanese International Training Groups

Waseda-Darmstadt University

Mathematical Fluid Dynamics Launching Workshop

Location: Waseda University,
Waseda Campus, building No. 63
3-4-1 Ohkubo, Shinjuku-ku, Tokyo, Japan

Opening Remarks 14th April

15:30-16:30 Kyuya Masuda (Emeritus Prof. Univ. of Tokyo)
Decay of solutions of nonstationary Navier-Stokes equations.

Matthias Hieber (TU Darmstadt)
Analytic Encounters in Fluid Dynamics

16:50-17:50 Yoshikazu Giga (Univ. of Tokyo)
On corticity direction of the Navier-Stokes flow

Wilhelm Stannat (TU Darmstadt)
Stochastic Encounters in Fluid Dynamics

Mathematical Session 16th April

10:00-11:00 Matthias Hieber (TU Darmstadt)
On the fluid-rigid body interaction problem.

Hideo Kozono (Tohoku Univ.)
Div-Curl Lemma in 3D domains

11:00-11:30 Coffee break

11:30-12:30 Wilhelm Stannat (TU Darmstadt)
On the Stochastic Navier-Stokes equations

Tadahisa Funaki (Univ. of Tokyo)
Hydrodynamic limit and nonlinear PDEs

12:30-14:00 Lunch break

14:00-15:30 Toshiaki Hishida (Nagoya Univ.)
Leading profile of the steady Navier-Stokes flow around a rotating body

Matthias Geissert (TU Darmstadt)
The Stokes operator in unbounded domains

Takaaki Nishida (Waseda Univ.)
Pattern formations in heat convection problems

15:30-16:00 Coffee break

16:00-17:30 Masao Yamazaki (Waseda Univ.)
Stability of stationary solutions to the planar Navier-Stokes equation

Hiroaki Yoshimura (Waseda Univ.)
Dirac Structures, Variational Principles and Reduction in Mechanics

Yoshio Yamada (Waseda Univ.)
Positive solutions for Lotka-Volterra competition systems
with Large cross-diffusion

18:00- Reception (Takeuchi Rounge)

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