

RIMS Workshop on
Mathematical Analysis of Viscous Incompressible Fluid

Organizers: Yasunori Maekawa (Kyoto University)
Yoshihiro Shibata (Waseda University)

Date: December 4 – 6, 2017

Venue: Room 111, Research Institute for Mathematical Sciences, Kyoto University

Program

Monday, December 4

13:30 - 14:20 Walter Craig (MacMaster University)

On the size of the Navier - Stokes singular set

14:30 - 15:20 Jan Brezina (Tokyo Institute of Technology)

Good concept of a solution to complete Euler system

15:40 - 16:10 Tatsu-Hiko Miura (The University of Tokyo)

On the Navier-Stokes equations in a curved thin domain

16:20 - 16:50 Ken Furukawa (The University of Tokyo)

Asymptotic stability of Oseen type Navier-Stokes flow under large perturbation

Tuesday, December 5

10:00 - 10:50 Anna Mazzucato (Penn State University)

The vanishing viscosity limit in porous media

11:00 - 11:50 Takeshi Matsumoto (Kyoto University)

Do dissipative weak Euler solutions dream of turbulence?

13:30 - 14:20 Mads Kyed (TU Darmstadt)

Occurrence of resonance in a thin elastic structure interacting with a viscous fluid

14:30 - 15:20 Matthias Hieber (TU Darmstadt)

On the primitive equations with rough data

15:40 - 16:30 Toshiaki Hishida (Nagoya University)

Asymptotic structure of steady flow around a two-dimensional rotating body

Around 17:45 ~ Banquet

Wednesday, December 6

10:00 - 10:50 Alex Mahalov (Arizona State University)

Stochastic three-dimensional Navier-Stokes equations + waves: averaging, convergence, regularity and nonlinear dynamics

11:00 - 11:50 Takahiro Okabe (Hirosaki University)

Remark on the strong solvability of the Navier-Stokes equations in the weak L^n space

This workshop is supported by RIMS in cooperation with Mathematics and Physics Unit "Multiscale Analysis, Modeling and Simulation", Top Global University Project, Waseda University.



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RIMS 共同研究（公開型）

非圧縮性粘性流体の数理解析

京都大学数理解析研究所の共同研究事業の一つとして、下記のように研究集会を催しますので、ご案内申し上げます。

研究代表者 前川 泰則（京大・理） Yasunori Maekawa
副代表者 柴田 良弘（早大・理工） Yoshihiro Shibata

記

日時: 2017年12月4日（月）13:30 ~ 6日（水）12:00

場所: 京都大学数理解析研究所 1階 111号室

京都市左京区北白川追分町

市バス 京大農学部前 または 北白川 下車

共催: スーパーグローバル大学創成支援早稲田大学数物系科学拠点

プログラム

12月4日（月）

13:30 - 14:20 Walter Craig (MacMaster University)

On the size of the Navier - Stokes singular set

14:30 - 15:20 Jan Brezina (東京工業大学)

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15:40 - 16:10 三浦 達彦 (東京大学)

On the Navier-Stokes equations in a curved thin domain

16:20 - 16:50 古川 賢 (東京大学)

Asymptotic stability of Oseen type Navier-Stokes flow under large perturbation

12月5日（火）

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Remark on the strong solvability of the Navier-Stokes equations in the weak L^n space



非圧縮性粘性流体の数理解析
Mathematical Analysis of Viscous Incompressible Fluid
RIMS 共同研究（公開型）報告集

2017 年 12 月 4 日～12 月 6 日
研究代表者 前川 泰則 (Yasunori Maekawa)

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