International Research Training Group 1529

Mini-Workshop on Fluid Dynamics

January 31, 2012, S2 15/room 315

PROGRAM

09:00 – 09:20   Hirofumi Notsu, Waseda University
"Numerical computations of flow problems
by schemes based on the method of characteristics"

09:20 – 9:40   Tobias Nau, Universität Konstanz
"The periodic Stokes problem and the Helmholtz
projection in a rectangular cylinder"

09:40 – 10:00   Mario Kaip, Universität Konstanz
"Mixed Order Systems and Free Boundary Value Problems"

10:00 – 10:20   Tomoyuki Nakatsuka, Waseda University
"On uniqueness of stationary solutions to the
Navier-Stokes equations in exterior domains"

10:20 – 10:50   **Coffee Break**

10:50 – 11:10   Atsuhiko Mizusawa, Waseda University
"On Handlebody-Knot Theory"

11:10 – 11:30   Matthias Köhne, C.S.I., TU Darmstadt
"The Stokes Operator subject to Energy
Preserving Boundary Conditions"

11:30 – 11:50   Lorenz von Below, TU Darmstadt
               "The spin-coating process with convective heat transfer"

11:50 – 12:10   André Fischer, C.S.I., TU Darmstadt
               "Existence, uniqueness and exponential stability of the
               steady state solution to a model in electrohydrodynamics"

12:10 – 13:30   **Lunch**

13:30 – 13:50   Thieu Huy Nguyen, TU Hanoi und TU Darmstadt
               "Global Existence and Exponential Stability
               of Mild Solutions to NSE with Small Data"

13:50 – 14:10   Kohei Soga, Waseda University
               "On the formulation of bubble generation in liquid"

14:10 – 14:30   Georg Schöchtel, TU Darmstadt
               "Motion of inertial particles in Gaussian fields
               driven by an infinite-dimensional fractional Brownian motion"

14:30 – 15:00   **Coffee Break**

15:00 – 15:20   Yoritaka Iwata, G.S.I. Darmstadt
               "Logarithmic representation of infinitesimal generators"

15:20 – 15:40   Raphael Schulz, TU Darmstadt
               "Spatial Asymptotic Profiles of Solutions
               of the Navier-Stokes System in a Rotating Frame"

15:40 – 16:00   Manuel Nesensohn, TU Darmstadt
               "L_p-theory for a generalized viscoelastic fluid model"

16:00 – 16:20   Siegfried Maier, TU Darmstadt
               "Parabolic equations on domains of wedge type"