
**French-Japanese Workshop on
Wavelet and Large Eddy Representations to Study Turbulent Flows**

**Research Institute of Mathematical Sciences (RIMS)
Thursday December 5th, 9:00-17:00
RIMS, Kyoto, Room 110**

10:00-10:20

Ryo Onishi, Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokohama
*Building-resolving Large Eddy Simulation for real-time prediction of urban micrometeorology:
Integrated technology of numerical simulation and Convolutional Neural Network-based machine learning*
10:20-10:30 Open discussion

10:30-10:50

Allan Sacha Brun, Département d'Astrophysique, Commissariat à l'Energie Atomique (CEA), Saclay (France)
Wavelet analysis of Large Eddy Simulations of stellar convection and magnetism
10:50-11:00 Open discussion

11:00-11:30

Coffee/tea break

11:30-11:50

Toshiyuki Gotoh, Department of Physical Science and Engineering, Nagoya Institute of Technology
Fluctuations of incompressible passive vector in isotropic turbulence
11:50-12:00 Open discussion

12:00-12:20

Yoshimichi Hagiwara, Kyoto Institute of Technology
Dissimilarity between wall shear stress and heat transfer for turbulent flows in channels with wavy walls
12:20-12:30 Open discussion

12:30-14:00

Lunch

14:00-14:20

Genta Kawahara, Graduate School of Engineering Science, Osaka University
Ultimate heat transfer in convective turbulence
14:20-14:30 Open discussion

14:30-14:50

Keigo Matsuda, Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokohama
Wavelet-based multiscale analyses of inertial particle distribution in homogeneous isotropic turbulence
14:50-15:00 Open discussion

15:00- 15h:30

Coffee/tea break

15:30-15:50

Nobumitsu Yokoi, Institute for Industrial Science, University of Tokyo
Global vortical-flow generation and its modelling for Large Eddy Simulations
15:50-16:00 Open discussion

16:00- 16h:20

Dmitry Kolomenskiy, Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Yokohama
Wavelet-based data compression for three-dimensional numerical simulations on regular grids
16:20-16:30 Open discussion

16:30-16:50

Taku Ohwada, Department of Aeronautics and Astronautics, Kyoto University
*Three-dimensional numerical simulation of an array of subsonic counter-flow jets
issuing from a wing leading edge exposed to hypersonic aerodynamic heating*
16:50-17:00 Open discussion

Location :

<http://www.kurims.kyoto-u.ac.jp/en/index.html>

Speakers :

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