

Coordination Meeting 2nd Period – Agenda

Radisson Blu Hotel Erfurt, Juri-Gagarin-Ring 127

Day 1 (28.01.19, Radisson Blu Hotel)

- 12:00 – 13:00 Refreshments and quick meal in Hotel**
- 13:00 – 13:30 **Introduction and priority programme overview**
Jörg Schumacher, TU Ilmenau
- 13:30 – 13:40 **“Experimental investigation of the turbulent convection rolls in large aspect ratio cells and at very large Rayleigh numbers”**
Eberhard Bodenschatz, MPI for Dynamics and Self-Organization Göttingen
- 13:40 – 13:50 **“Experimental analysis of turbulent superstructures in thermal convection by time-resolved 3D Lagrangian Particle Tracking up to very high Rayleigh numbers”**
Johannes Bosbach, DLR Göttingen
- 13:50 – 14:00 **“Simultaneous volumetric measurement of the velocity and temperature field in Rayleigh-Bénard cells with large aspect ratio”**
Christian Cierpka, TU Ilmenau
- 14:00 – 14:10 **“Uncertainty analysis and visualization of superstructures in turbulent flows”**
Carsten Dachsbacher, KIT
- 14:10 – 14:20 **“The role of superstructures in production, transport and dissipation of Reynolds stresses through scales and space”**
Davide Gatti, KIT
- 14:20 – 14:30 **“Superstructures and the friction scaling in pipe flow”**
Björn Hof, IST Austria Klosterneuburg
- 14:30 – 14:40 **“Controlled restructuring of coherent vortices in wall-bounded turbulence at high Reynolds numbers”**
Suad Jakirlic, TU Darmstadt
- 14:40 – 15:25 **Coffee break and discussions**
- 15:25 – 15:35 **“Organization of exact coherent structures in turbulent flows: a network representation”**
Günter Radons, TU Chemnitz; Hongliu Yang, TU Dresden
- 15:35 – 15:45 **“Rigorous investigation of length scales in porous medium convection at high Rayleigh numbers”**
Christian Seis, University of Münster
- 15:45 – 15:55 **“Detection of transport-dominated large-scale structures in turbulent wall-bounded flows”**
Jörn Sesterhenn, TU Berlin
- 15:55 – 16:05 **“Gauging phase space dimension for the prediction of extreme events in turbulent systems”**
Günter Steinmeyer, Max-Born-Institut Berlin

- 16:05 – 16:15 **“Visual analysis of superstructures in turbulent channels with mixing by coaxial injection”**
Holger Theisel, OvGU Magdeburg
- 16:15 – 16:25 **“DNS of superstructures in turbulent channels with mixing by coaxial injection”**
Dominique Thévenin, OvGU Magdeburg
- 16:25 – 16:35 **“Experimental investigation of superstructures in turbulent liquid metal convection”**
Tobias Vogt, HZ Dresden-Rossendorf
- 16:35 – 16:45 **Short Break**
- 16:45 – 17:25 **Compact overview of projects on turbulent shear flows projects** (30 minutes + 10 minutes)
Bettina Frohnappel, KIT
Projects: Avila, Eckhardt, Egbers, Frohnappel, Kähler, Oberlack, Rist, Schröder
- 19:00 **Joint dinner** at [Pier 37](#) (at own expense)

Day 2 (29.01.19, Radison Blu Hotel)

- 09:00 – 09:40 **Compact Overview of projects on Lagrangian methods** (30 minutes + 10 minutes)
Kathrin Padberg-Gehle, Leuphana Universität Lüneburg
Projects: Dellnitz, Haller, Junge, Karrasch, Koltai, Padberg-Gehle
- 09:40 – 10:20 **Compact Overview of projects on turbulent convection** (30 minutes + 10 minutes)
Jörg Schumacher, TU Ilmenau
Projects: Adams, Holzner, Lohse, Mellado, Schumacher, Shishkina, Weiss, Westermann, Wilczek
- 10:20 – 11:20 **Coffee break and discussions**
- 11:20 – 12:00 **Closing remarks: summary, networking, proposal preparation, time line**
Jörg Schumacher, TU Ilmenau
- 12:00 – 13:00 Refreshments and quick meal in Hotel**

** proposal talk, 10 minutes (7 minutes talk and 3 minutes discussion)
(Whiteboard and beamer are available)*