

## Registration

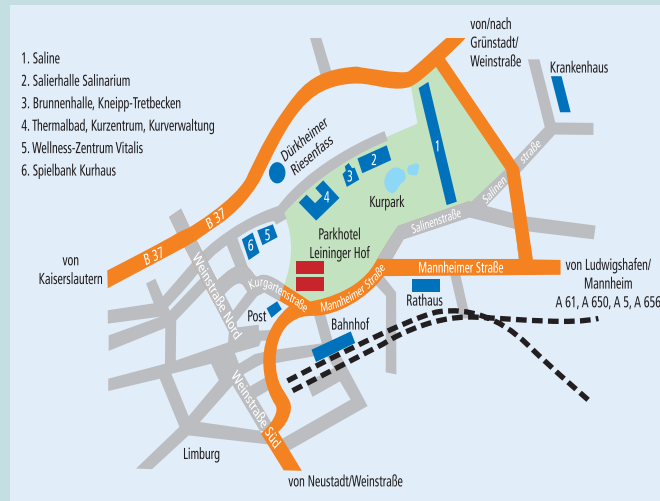
To register, please visit  
[www.tu-cottbus.de/las/forschung/for1182/workshop-2011.html](http://www.tu-cottbus.de/las/forschung/for1182/workshop-2011.html)  
e-mail: [for1182@tu-cottbus.de](mailto:for1182@tu-cottbus.de)

Registration will be opened from March 15th, 2011  
until June 15th, 2011.

## Important deadlines

Abstract submission: May 1st, 2011  
Notification of acceptance: June 1st, 2011  
Registration: June 15th, 2011

**Conference fee: 100 €**



### Coming from direction Mannheim/Ludwigshafen:

Drive A650 down to Bad Dürkheim. Take first exit on your right hand "Bad Dürkheim - Zentrum", passing under the bridge you arrived already on the "Mannheimer Strasse". Please follow this road for about 3km till the German Post Office. Arriving before the German Post Office, please turn right, you are now on the "Kurgartenstrasse", after approximately 50m you will see the Parkhotel Leininger Hof on your right.

### By Train:

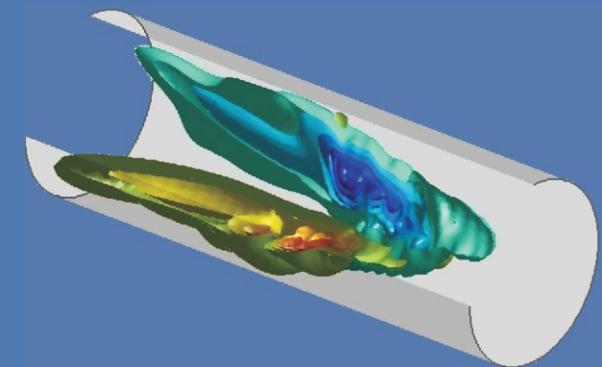
The railway station of Bad Dürkheim is about 200m from the Parkhotel. By arrival you can cross the place. Before the German Post Office turn right into the "Kurgartenstrasse" and after approximately 50m you will find the Parkhotel Leininger Hof on your right.

# FOR 1182 Workshop 2011

## Dynamics of Coherent Structures in Turbulent Flows

19 -21 September 2011

in Bad Dürkheim



**DFG**

## Organizers:

Prof. C. Egbers  
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Prof. B. Eckhardt  
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Prof. J. Schumacher  
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## Secretary:

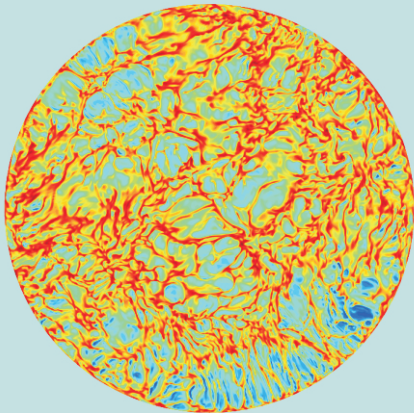
Silke Kaschwich  
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### Scientific Objective:

Nearly all turbulent flows in nature and technology are bounded by solid walls. In their vicinity, strong interactions between differently sized structures dominate the dynamics. Starting with Ludwig Prandtl's boundary layer concept, refined by symmetry arguments, many important results on mean profiles of turbulent field quantities have been obtained. Nevertheless, uncertainties in the mean profiles and scaling exponents, which are necessary for the calculation of global transport quantities, lead to variations in the predicted global transport that can vary by orders of magnitude. In line with scientific goals of our Research Focus Group FOR 1182 which is funded by the Deutsche Forschungsgemeinschaft (DFG) this workshop will present recent new insights and observations on the dynamics of turbulence near solid walls and discuss the connection between local dynamical processes near the walls and global transport properties. Progress in understanding is expected by comparison of three fundamental flows that have been studied so far separately: thermal convection in a cell heated from below (Rayleigh-Bénard), shear turbulence between two concentric and rotating cylinders (Taylor-Couette), and pressure-driven turbulence in pipes, ducts and channels, transition to turbulence as well as the fully developed state of turbulence.

### Program

The program will include a series of plenary lectures and invited contributions by external experts. Regular participants may contribute oral or poster presentations, depending on "demand and supply".



### Plenary Lecturers

**Prof. Günter Ahlers**  
University of California Santa Barbara, USA

**Prof. Dwight Barkley**  
University of Warwick, United Kingdom

**Prof. Herman Clercx**  
Eindhoven University of Technology, The Netherlands

**Prof. Siegfried Grossmann**  
Philipps-Universität Marburg, Germany

**Prof. Dan Henningson**  
KTH Mechanics Stockholm, Sweden

**Prof. Rainer Hollerbach**  
University of Leeds, United Kingdom

**Prof. Daniel Lathrop**  
University of Maryland College Park, USA

**Prof. Detlef Lohse**  
University of Twente, The Netherlands

**Prof. Tom Mullin**  
University of Manchester, United Kingdom

**Prof. Michael Schatz**  
Georgia Institute of Technology, USA

**Prof. Laurette Tuckerman**  
PMMH-ESPCI, France

**Prof. Markus Uhlmann**  
Karlsruher Institut für Technologie, Germany

**Prof. Roberto Verzicco**  
Università di Roma Tor Vergata, Italy

**Prof. Jerry Westerweel**  
Delft University of Technology, The Netherlands

**Prof. Ke-Qing Xia**  
The Chinese University of Hong Kong, China

### Scientific Advisory Committee

**Prof. Antonio Delgado**  
Universität Erlangen

**Prof. Bruno Eckhardt**  
Universität Marburg

**Prof. Christoph Egbers**  
BTU Cottbus

**Dr. Björn Hof**  
Max-Planck-Institut Göttingen

**Prof. Jörg Schumacher**  
Technische Universität Ilmenau

**Prof. André Thess**  
Technische Universität Ilmenau

