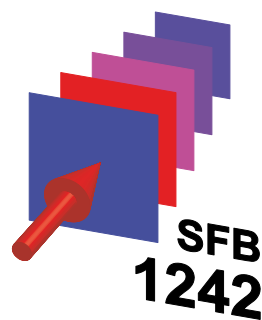


Kick-Off-Meeting

Non-Equilibrium Dynamics of Condensed Matter in the Time Domain

21 – 23 November, 2016
Physikzentrum Bad Honnef

University of Duisburg-Essen
Germany



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Organisation and Contact

Spokesperson of the SFB 1242

Uwe Bovensiepen
Faculty of Physics
University of Duisburg-Essen
47048 Duisburg
phone:+(49)-(0)203 / 379-4566
uwe.bovensiepen@uni-due.de

Management of the SFB 1242

Nora Dörmann
University of Duisburg-Essen
phone:+(49)-(0)203 / 379-1545
nora.doermann@uni-due.de

Further Information

<http://www.sfb1242.de>

Location

Physikzentrum
Hauptstrasse 5
53604 Bad Honnef
phone:+(49)-(0)2224 / 92 32 13
<http://www.pbh.de>

Arrival

10:00 Coffee

10:30 Welcome and Introduction
Uwe Bovensiepen

Chairperson: Axel Lorke

11:00 Thomas Elsässer
Non-linear THz spectroscopy of semiconductors and ferroelectrics

11:40 Jürgen König
Full counting statistics of electron tunnelling in Coulomb-blockade devices

12:20 Martin Geller
Non-equilibrium electron dynamics in artificial atoms

13:00 Lunch

Chairperson: Michael Horn-von Hoegen

14:30 Ralph Ernstorfer
A momentum-resolved view of electronic and structural dynamics in WSe₂

15:10 Frank Meyer zu Heringdorf
*Nonlinear microscopy with surface plasmon polaritons:
Photoemission and plasmoemission*

16:00 Coffee

Chairperson: Peter Kratzer

16:30 Götz Uhrig
Nonequilibrium phenomena in lattice models and the central spin model

17:10 Corinna Kollath
Evolution of correlations and order coupled to an environment

17:50 Ralf Schützhold
Multiple particle-hole pair creation in the harmonically driven Fermi-Hubbard model

18:30 Dinner

20:00 Poster Session

from 7:30 Breakfast

Chairperson: Rossitza Pentcheva

8:30 Bärbel Rethfeld
Relaxation cascade of laser-excited electrons in solids

9:10 Georg Kresse
The GW and random phase approximation for large systems

10:00 Coffee

Chairperson: Marika Schleberger

10:30 Sascha Schäfer
Ultrafast nanoscale dynamics probed by time-resolved electron microscopy

11:10 Klaus Sokolowski-Tinten
Energy relaxation and dissipation in laser-excited nanoscale films

11:50 Tim Frigge
Beyond thermal equilibrium: Ultrafast non-thermal melting of a surface CDW in the In/Si(111) atomic-wire system

13:00 Lunch

14:00 Outdoor workshop

Hiking to the Drachenfels

16:45 Coffee

Chairperson: Eckart Hasselbrink

17:00 Ellen Backus
The water-surfactant interface revealed by time-resolved vibrational spectroscopy

17:40 Sebastian Schlücker
Surface-enhanced Raman spectroscopy with highly plasmonically active nanostructures: From bioimaging and catalysis towards ultrasensitive chemical reaction monitoring with femtosecond time resolution

18:30 Dinner

from 7:30 Breakfast

Chairperson: Jürgen König

- 8:30** **Andrea Eschenlohr**
Femtosecond time-resolved x-ray spectroscopy as a tool for analyzing non-equilibrium electronic and magnetization dynamics
- 9:10** **Michael Sentef**
Theory of ultrafast dynamics in superconductors
- 9:50** **Manuel Ligges**
Ultrafast electronic response of the Mott-insulator 1T-TaS₂

10:30 Coffee

Chairperson: Rolf Möller

- 10:50** **Tyler Cocker**
Tracking the ultrafast motion of a single molecular orbital with terahertz scanning tunnelling microscopy
- 11:30** **Dmitry Turchinovich**
Direct look at charge, lattice and spin dynamics in solids with ultrafast terahertz spectroscopy
- 12:10** **Christian Bobisch**
Probing reactions, phase transitions and electron transport with atomic scale precision atomic

13:00 Lunch

14:00 Departure