

Monday, 3 September 2018

11:00 **Arrival & Registration**

13:40 **Welcome & Introduction**

Chair: Uwe Bovensiepen

13:40 **Frank Meyer zu Heringdorf**

Nonlinear Electron Emission from Strong SPP Fields

14:00 **Elke Scheer (invited)**

Spatial Modulation and Persistent Response of Membrane Resonators

14:40 **Dmitry Turchinovich**

Terahertz High Harmonics Generation in Graphene

15:00 **Sarah Houver**

Exploring the Band Curvature of Low-Bandgap Semiconductors using Few-Cycle 2D THz Spectroscopy

15:20 **Hamed Merdji**

Recent Progresses in High Harmonic Generation in 2D and 3D Semiconductors

15:40 **Coffee Break**

Chair: Rossitza Pentcheva

16:10 **Tobias Zier**

Ab Initio Simulations on the Controllability of Nonthermal Melting and Vacancy Diffusion in Silicon

16:30 **Alfred J. Meixner (invited)**

Tip Enhanced Near-Field Optical Spectroscopy of Semiconductor Molecules

17:10 **Ralf Schützhold**

Environment Induced Pre-Thermalization in the Mott-Hubbard Model

17:30 **Lucia Reining (invited)**

Some Aspects of Functionals for Time-Dependent Spectroscopies

18:10 **Dinner**

19:30 **Poster Session 1 (posters with odd numbers)**

Tuesday, 4 September 2018

7:00 Breakfast

Chair: Michael Horn-von Hoegen

9:00 Bradley Siwick (invited)

Ultrafast Momentum-Resolved Phonon Spectroscopy - Direct Observations of Electron-Phonon Coupling and Nonequilibrium Phonon Dynamics in the Time-Domain

9:40 Jim Franssen

The Ultrafast and Ultracold Electron Source

10:00 Vatsal Jhalani (invited)

Ultrafast Charge Carrier Dynamics and Light Emission in Materials from First Principles

10:40 Coffee break

Chair: Rolf Möller

11:10 Christian Flindt (invited)

Electronic Spectroscopy of Mesoscopic Conductors Using Periodic Voltage Pulses

11:50 Paul Geller

Electron Correlation in the Optical Telegraph Noise of Electron Tunneling into a Single Quantum Dot

12:10 Klara Volckaert

Polarization Control of Ultrafast Electron-Hole Dynamics in Bilayer MoS₂

12:30 Lunch

Chair: Ralf Schützhold

14:00 Gabriele Ferrari (invited)

Spontaneous Creation, Dynamics and Interaction of Vortices in Bose-Einstein Condensates

14:40 Dirk Schuricht (invited)

Time Evolution after Quantum Quenches in One-Dimensional Systems

15:20 Julia Stähler (invited)

Ultrafast Quasiparticle Dynamics in a Transition Metal Dichalcogenide and at Hybrid Organic/Inorganic Interfaces

16:00 Coffee break

Chair: Heiko Wende

16:30 Lukas Gallmann (invited)

Attosecond Electron Dynamics in Dielectrics and Metals Driven by Optical Fields

17:10 Stephen R. Leone (invited)

Attosecond Probing of Core-Level Dynamics in Solids

18:10 Dinner

19:30 Poster Session 2 (posters with even numbers)

Wednesday, 5 September 2018

7:00 Breakfast

Chair: Frank Meyer zu Heringdorf

- 9:00 **Ulrich Höfer (invited)**
Time-Resolved Spectroscopy of Electron Transfer Processes at Metal/Organic Interfaces
- 9:40 **Andrea Eschenlohr**
Microscopic Energy Flow Dynamics in a Simple Heterostructure
- 10:00 **Petra Tegeder (invited)**
Excited State Dynamics in Organic Semiconductors

10:40 Coffee break

Chair: Peter Kratzer

- 11:10 **Caterina Cocchi (invited)**
First-Principles Modelling of Laser-Induced Excitations in the Linear Regime and Beyond
- 11:50 **Dino Novko**
Dynamics of Adsorbates on Metal Surfaces under Equilibrium and Non-Equilibrium Conditions
- 12:10 **Markus Gruner**
Real-Time Evolution of Optical Excitations in Fe/MgO(001) Heterostructures from RT-TDDFT

12:30 Lunch

Chair: Manuel Ligges

- 14:00 **Wojciech Zurek (invited)**
Space - Time Renormalization in Second Order Phase Transitions
- 14:40 **Christian Schüßler-Langeheine (invited)**
Antiferromagnetism vs. Ferromagnetism: Ultrafast and Energy-Efficient Quenching of Spin Order in Dysprosium

15:30 Conference Outing

Thursday, 6 September 2018

7:00 Breakfast

Chair: Dmitry Turchinovich

9:00 Christian Bressler (invited)
Structural Dynamics Studies with Femtosecond Temporal Resolution

9:40 Orly Tarun (invited)
Label-Free and Charge-Sensitive Dynamic Imaging of Lipid Membrane Hydration on Millisecond Time Scales

10:20 Alexej Pashkin
Photo-Induced THz Response of VO₂ under High Pressures

10:40 Coffee break

Chair: Klaus Sokolowski-Tinten

11:10 Mariano Trigo (invited)
An Ultrafast Path to Ergodicity in Photoexcited VO₂

11:20 Niloufar Nilforourshan
Ultrafast Evolution of the Prototype Out-of-Equilibrium Mott-Hubbard Material V₂O₃

11:40 Sergeii Parchenko
Direct Probe of the Orbital Occupancy during the Insulator to Metal Transition

12:30 Lunch

Chair: Eckart Hasselbrink

14:00 Stefan Haacke
Photo-Isomerization Mechanism of Microbial Retinal Proteins and Biomimetic Molecular Switches

14:20 Heinrich Schwoerer
Ultrafast Pathways of the Photo-Induced Insulator-Metal Transition in a Low Dimensional Organic Conductor

14:40 Claus Ropers (invited)
Ultrafast Electron Diffraction and Microscopy with High-Coherence Beams

15:20 Alec M. Wodtke (invited)
Velocity-Resolved Kinetics of Site-Specific Carbon Monoxide Oxidation on Platinum Surfaces

16:00 Coffee break