

Annual Meeting

International Max Planck Research School of
Advanced Photon Science, IMPRS-APS

Ringberg Castle, 24-27 July 2011



Monday

- 8:00 - 9:00 **Breakfast**
- 9:00 Welcome
- 9:10 - 9:35 **Stefan Nagele**
Time-resolved photoemission by attosecond streaking: Part I
- 9:35 - 10:00 **Renate Pazourek**
Time-resolved photoemission by attosecond streaking: Part II
- 10:00 - 10:25 **Elisabeth Bothschafter**
Strong field induced phenomena in SiO₂
- 10:25 **Coffee break**
- 10:50 - 11:15 **Jasper Werhahn**
Dynamics of Weak, Bifurcated and Strong Hydrogen Bonds in Aqueous Hydrates
- 11:15 - 11:40 **Xiaoqing Zhou**
Optomechanical coupling in the microwave regime
- 11:40 - 12:05 **Sandro Klingbiel**
Temporal jitter inside a stretcher/compressor
- 12:30 **Lunch**
- 14:00 - 14:25 **Christoph Wandt**
PFS Pump Source Development - A Novel Design for Multi-Pass Amplifiers
- 14:25 - 14:50 **Alexander Schwarz**
Sub-2-cycle NIR pulses
- 14:50 - 15:15 **Irina Znakovskaya**
Waveform control of molecular dissociation with mid-infrared few-cycle laser pulses
- 15:15 - 15:40 **Matthias Kübel**
Controlling and Tracing Correlated Electron Dynamics on Attosecond Timescales
- 15:40 **Coffee break**
- 16:10 - 16:35 **Michael Jobst**
Recent progress in the attosecond spectroscopy of ozone
- 16:35 - 17:00 **Markus Schenk**
Attosecond photoemission dynamics from a nanoscale metal tip
- 17:00 - 17:25 **Georg Wachter**
Modelling of laser-tip interaction
- 15:50 - 16:10 **Frederik Süßmann**
Attosecond nanoplasmonic streaking of localized fields near metal nanospheres
- 17:25 - 17:50 **Johannes Hoffrogge**
Microwave Guiding of Electrons
- 18:30 **Dinner**

Tuesday

- 9:00 - 9:25 **Tim Paasch-Colberg**
Light field control of electronic motion in the solid state
- 9:25 - 9:50 **Michael Korbman**
Electron excitations in solids: models and dynamics
- 9:50 - 10:15 **Mohammed Hassan**
Sub-Optical-Cycle Waveform Synthesis of Light

10:15 - 10:40 **Katharina Doblhoff**
Dynamics of molecules in intense laser fields

10:40 **Coffee break**

11:10 - 11:35 **Robert Grummt**
A comic of laser ionization

11:35 - 12:00 **Bernd Ullmann**
Database

12:30 **Lunch**

14:00 - 14:20 **Bernd Ullmann**
Database

14:20 - 14:45 **Antoine Moulet**
Attosecond probing of strong field polarization of Kr⁺

14:45- 15:10 **Michael Förster**
Coherent two-dimensional spectroscopy in the UV

15:10 - 15:35 **Nicole Humble**
Biological Experiments investigating the properties of pulsed proton beams in contrast to continuous proton beams

15:35 **Coffee break**

16:00 - 16:25 **Patrick Heißler**
Attosecond pulses off solid density plasmas

16:25 - 16:50 **Daniel Kiefer**
Coherent Thomson Scattering from Relativistic Electron Mirrors

16:50 - 17:15 **Sebastian Raith**
Considerations for a first-order longitudinal phase space measurement of laser-accelerated electrons

17:15 - 17:40 **Constantin Klier**
PIC simulations at extreme laser intensity

17:40 - 18:05 **Oleg Pronin**
Mode locking techniques and instabilities in high power thin-disk oscillator

18:30 **Dinner (Bavarian Evening)**

Wednesday

9:00 - 9:25 **Lauryna Lötscher**
Towards CEP-Stable Few-Cycle Pulses from Yb:YAG Thin-Disk Oscillator at MHz Repetition Rate

9:25 - 9:50 **Jianhui Bin**
Laser driven ion acceleration at MPQ

9:50 - 10:15 **Shao-Wei Chou**
Progress on control injection of electron acceleration

10:15 - 10:40 **Daniel Strobusch**
On the Way to Optimal Vibrational Coordinates

10:40 **Coffee break**

11:10 - 11:35 **Friedrich Kirchner**
Towards ultrafast electron diffraction

12:00 **Lunch**