

Joint IMPRS-MPC-AS Workshop from June 1st until June 3rd, 2015

at the IAS, Institute for Advanced Study, Faculty Room, TUM,
Lichtenbergstr. 2a, Garching, on Monday, June 1st and on Wednesday, June 3rd 2015

at the MPQ, Max Planck Institute of Quantum Optics, Herbert Walther Seminar Room
Tuesday, June 2nd – Talks, Booth Tutorials, Posters and Visit of Laboratories

PROGRAM

Monday, June 01, 2015 at the IAS, Faculty Room

9:30	Transfer from Hotel Maria to IAS, Faculty Room Session Chair: E. Goulielmakis
10:00 - 10:05	Welcome by Dr. Eleftherios Goulielmakis
10:05 - 10:50	Dr. Martin Schultze , MPQ <i>Attosecond Metrology (Tutorial)</i>
10:50 - 11:10	Coffee Break
11:10 - 11:30	Manish Garg , IMPRS-APS <i>Coherent XUV generation from bulk solids and its temporal characterization</i>
11:30 - 11:50	Alexander Blättermann , IMPRS-QD, MPIK, Heidelberg <i>In situ characterization of few-cycle laser pulses in transient absorption spectroscopy</i>
11:50 - 12:10	Jhiah-An You , IMPRS-UFAST, Hamburg <i>Probing attosecond pulse structure by XUV stimulated electron and hole dynamics</i>
12:10 - 13:30	Lunch at the IPP Cantine Session Chair: N. Karpowicz
13:30 - 14:15	Prof. Hans-Jakob Würner , ETH, Zurich <i>Attosecond High Harmonic Spectroscopy (Tutorial)</i>
14:15 - 14:35	Daniel Hollas , Univ. of Chemistry and Technology, Prag <i>Novel X-ray initiated processes in hydrogen bonded systems</i>
14:35 - 14:55	Abraham Camacho , MPI-PKS, Dresden <i>Charge transfer in XFEL irradiated biomolecules</i>
14:55 - 15:15	Vinay Majety , IMPRS-APS <i>Dynamic exchange and polarization effects in angle dependent photo-ionization of molecules</i>
15:15 - 15:35	Coffee Break
15:50	By underground to Munich, with U-6 to station Odeonsplatz
16:30	City tour by walking, departure from the steps of Feldherrnhalle - voluntary
18:00	Dinner at Pfälzer Weinstuben , Residence, Obergeschoss or 2 nd floor



Tuesday, June 02, 2015

9:30 **Transfer** from Hotel Maria to MPQ, Herbert Walther Seminar Room

Session Chair: M. Schultze

10:00 - 10:45 **Dr. Peter Baum, LMU**
Ultrafast Electron Diffraction (Tutorial)

10:45 - 11:15 **Coffee Break**

11:15 - 11:35 **Keisuke Kaneshima, University of Tokyo (MPC-AS)**
Tunable mid-IR pulse generation via frequency-selective optical parametric amplification

11:35 - 11:55 **Roland Mainz, CFEL-DESY, Hamburg**
High-energy sub-cycle light field synthesizer for atto-science

11:55 - 12:25 **Marcus Seidel, IMPRS-APS**
High-power multi-megahertz sources of waveform-stabilized few-cycle light

12:30 - 14:00 **Lunch at the MPQ Cafeteria**

14:00 – 15:30 **Tutorials**
in the seminar rooms B 0.21 and B 0.22

Manish Garg, IMPRS-APS
Attosecond Streaking in a nutshell

Olga Razskazovskaya, MPQ
Ultrafast dielectric optics in a nutshell

Till Klostermann, MPQ
Light field synthesis in a nutshell

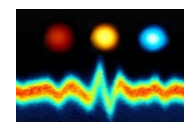
Alexander Guggenmos, MPQ
EUV/X-ray Multilayers in a nutshell

Johannes Schoetz, IMPRS-APS
Ultrafast Nanoplasmonics in a nutshell

15:30 – 18:00 **Lab Visits**

18:00 – 19:00 **Joint Buffet Dinner at MPQ Cafeteria**

19:00 – 20:30 **Poster Session** Kleiner Seminarraum next to Herbert Walther Seminar Room



Wednesday, June 3rd, 2015 at the IAS, Faculty Room

9:30 Transfer from Hotel Maria to the IAS

Session Chair: Manish Garg

10:00 - 10:45 **Prof. Matthias Kling**, LMU/MPQ
Attosecond Nano Photonics (Tutorial)

10:45 - 11:05 **Coffee Break**

11:05 - 11:25 **Elias Diesen**, MPI-PKS, Dresden
*Stark dynamics revealed by the zero-energy-structure
in strong-field photoelectron spectra*



11:25 - 11:45 **Fabian Lackner**, IMPRS-APS, Vienna
*Propagating the two-particle reduced density matrix
of atoms and molecules in strong laser pulses*

Session Chair: Johannes Schötz

12:00 - 14:00 **Lunch at the IPP Cantine**

14:00 - 14:45 **Dr. Nicholas Karpowicz**, MPQ
Terahertz Technology and Metrology (Tutorial)

14:45 - 15:05 **Sabine Keiber**, IMPRS-APS
Electro-Optic Sampling of Infrared Waveforms up to 200 THz



15:05 - 15:25 **Coffee Break**

15:25 - 15:45 **Kwon O Joon**, Postech Pohang, S. Korea, (MPC-AS)
Semi-metallization of dielectrics under strong optical field

15:45 **Lab Visits**

18:00 **Dinner in Garching**