

Annual IMPRS-APS Meeting

23-26 November 2014



Österreichische Akademie der Wissenschaften
Theatersaal, Sonnenfelsgasse 19, A-1010 Wien

Program

Contacts: H. Höller, M. Wild

Organizers: J. Burgdörfer, N. Karpowicz, M. Kling

Sunday 23rd November 2014	Time
<p>Bus ride to Vienna The bus departs from MPQ at 9 am and from Studentenstadt at 9:15 am Arrival at Carlton Opera Hotel ca. 3 pm</p>	
<p>Sightseeing</p>	16:00 – 18:00
<p>Annual meeting dinner at Salm Bräu</p>	19:00

Monday 24 th November 2014		Time
Nick Karpowicz	<i>Welcome and a bit of news</i>	09:30 – 9:50
Session 1: Light sources I		Chair: Wenz
Alexander Kessel	<i>The Petawatt Field Synthesizer - generation of high-energy few-cycle pulses: idea, issues & insights</i>	09:50 – 10:10
Mathias Krüger	<i>Increasing the energy of the PFS pumpchain to 10 J</i>	10:10 – 10:30
Marcus Seidel	<i>Spectral broadening in photonic crystal fibers</i>	10:30 – 10:50
Coffee break		10:50 – 11:10
Session 2: Ultrafast dynamics I		Chair: Baudisch
Sebastian Thomas	<i>Semitransparency in interaction-free measurements</i>	11:10 – 11:30
Jindrich Krčmar	<i>Simulation of electronic 2D spectra at conical intersections</i>	11:30 – 11:50
Hui Li	<i>Controlling collective electron motion in nanomaterials</i>	11:50 – 12:10
Lunch break at Gasthaus Pfudl		12:30 – 14:00
<i>Time for a walk, discussions etc.</i>		14:00 – 15:00
Session 7: Light sources II and Applications		Chair: Kessel
Haochuan Wang	<i>High peak and average power few-cycle light source</i>	15:00 – 15:20
Daniel Rivas	<i>Intense isolated attosecond pulses</i>	15:20 – 15:40
Tobias Ostermayr	<i>Laser plasma experiments using levitating targets</i>	15:40 – 16:00
Coffee break		16:00 – 16:30
Session 4: Attosecond physics I		Chair: Riemensberger
Sabine Keiber	<i>Ultrafast currents in dielectrics</i>	16:30 – 16:50
Michael Wismer	<i>Coherent control of electrons in semiconductors</i>	16:50 – 17:10
Harshit Lakhotia	<i>XUV generation from solids</i>	17:10 – 17:30
Annkatriin Sommer	<i>Attosecond transient polarization spectroscopy</i>	17:30 – 17:50
Dinner Heuriger...10er Marie, Fuhrgassl-Huber		18:30

Tuesday 25 th November 2014		Time
Session 5: Attosecond physics II		Chair: Sommer
		09:30 – 10:50
Clemens Jakubeit	<i>High-harmonic generation from 2 μm few cycle pulses</i>	09:30 – 09:50
Johann Riemensberger	<i>Attosecond photoemission spectroscopy</i>	09:50 – 10:10
Marcus Ossiander	<i>Attosecond tracking of excitation dynamics and charge migration</i>	10:10 – 10:30
Benjamin Förg	<i>Attosecond near-field streaking from metal nanotips</i>	10:30 – 10:50
Coffee break		10:50 – 11:10
Session 6: Ultrafast photoemission		Chair: Li
		11:10 – 12:10
Michael Förster	<i>Ultrafast physics and nanooptics at sharp metal tips</i>	11:10 – 11:30
Johannes Schötz	<i>CEP-resolved measurements of strong-field photoemission from metal nanotips</i>	11:30 – 11:50
Dominik Ehberger	<i>Experimental demonstration of highly coherent electron beams emitted from a laser-triggered nanotip</i>	11:50 – 12:10
Group picture		12:15
Lunch break at Gasthaus Pfudl		12:30 – 14:00
Time for a walk, discussions etc.		14:00 – 15:00
Session 7: Invited session		Chair: Burgdörfer / Lemell
		15:00 – 16:20
Marc Vrakking, MBI Berlin	<i>Photoelectron holography in strong DC and AC fields</i>	15:00 – 16:00
Georg Wachter, TU Vienna	<i>Simulation of condensed matter dynamics in strong femtosecond laser pulses</i>	16:00 – 16:20
Coffee break		16:20 – 16:50
Session 8: Ultrafast dynamics II		Chair: Kling
		16:50 – 18:10
Vinay Majety	<i>Photo-ionization of few electron systems: He, H₂, Be, Ne...</i>	16:50 – 17:10
Bastian Baudisch	<i>On the edge: Enhancing ultrafast spectroscopy capabilities in the UV and NIR</i>	17:10 – 17:30
David Picconi	<i>Nonadiabatic effects in molecular photodissociation dynamics</i>	17:30 – 17:50
Dinner at s'Müllerbeisl		18:30

Wednesday 26 th November 2014		Time
Session 9: Imaging		Chair: Schötz
		09:30 – 10:30
Christian Jendrzejewski	<i>Phase dependence of molecular strong field ionization</i>	09:30 – 9:50
Alissa Wiengarten	<i>Local investigation via scanning tunneling microscopy of a bimolecular system relevant for organic solar cells</i>	09:50 – 10:10
Andrey Ryabov	<i>Towards time-resolved electron imaging</i>	10:10 – 10:30
Coffee break		10:30 – 10:50
Session 10: Accelerated particles and applications		Chair: Karpowicz
		10:50 – 12:10
Sebastian Raith	<i>Singe-shot ultrawideband THz spectrometry for relativistic electron bunch diagnostics</i>	10:50 – 11:10
Daniel Cardenas	<i>Energy limitation of electron beams out of a laser accelerator</i>	11:10 – 11:30
Kerstin Hofmann	<i>Feasibility and limitations of laser-driven proton therapy</i>	11:30 – 11:50
Lunch break at Gasthaus Pfudl		12:00
Bus ride to Munich <i>Details will be announced at the meeting</i>		