

ATTO3 Program

Wednesday, July 6, 2011

9:00-9:20 **Opening remarks** (Katsumi Midorikawa)

Session A

9:20-9:50 Dieter Bauer (University of Rostock, Germany) *Invited*
"Attosecond strong field quantum dynamics beyond the strong field approximation"

9:50-10:10 Lars Bojer Madsen (Aarhus University, Denmark) *Contributed*
"Attoclock elicits physics of laser-induced tunnel ionization"

10:10-10:30 Dror Shafir (Weizmann Institute of Science, Israel) *Contributed* *
"When does an electron exit a tunneling barrier?"

10:30-10:50 **Coffee break**

10:50-11:20 Joachim Burgdörfer (Vienna University of Technology, Austria) *Invited* *
"Time-dependent electronic dynamics in atoms, molecules, and solids probed by ultrashort pulses"

11:20-11:40 Yusuke Furukawa (RIKEN, Japan) *Contributed* *
"Nonlinear Fourier-transform Spectroscopy of D₂ using High-order Harmonic Radiation"

11:40-12:10 Carsten Müller (MPI for Nuclear Physics, Germany) *Invited* *
"Electron correlation and interference effects in strong-field processes"

12:30-19:00 **Free discussion (Excursion to Otaru)**

* : Speakers selected for ICOMP12

Thursday, July 7, 2011

Session B

- 9:00-9:30 Zenghu Chang (University of Central Florida, USA) *Invited*
"Characterization of broadband sub-100 attosecond pulses with PROOF"
- 9:30-10:00 Mauro Nisoli (CNR-INFN / Politecnico of Milan, Italy) *Invited*
"Ionization gating for the generation of tunable XUV radiation and isolated attosecond pulses"
- 10:00-10:20 **Coffee break**
- 10:20-10:50 Yasuo Nabekawa (RIKEN, Japan) *Invited*
"XUV interferometry of attosecond pulses"
- 10:50-11:10 Dimitrios Charalambidis (IESL-FORTH / University of Crete, Greece) *Contributed*
"XUV-pump-XUV-probe studies of 1fs scale dynamics of atomic coherences"
- 11:10-11:30 Ming-Chang Chen (JILA, University of Colorado, USA) *Contributed*
"Phase-matched, Coherent, Attosecond Hard X-ray pulses from a Mid-IR Few-Cycle Tabletop Source"
- 11:30-13:30 **Lunch**

Session C

- 13:30-14:00 Gerhard Paulus (Friedrich Schiller University of Jena, Germany) *Invited*
"Surface High-Harmonic Generation"
- 14:00-14:30 Alfred Leitenstorfer (University of Konstanz, Germany) *Invited*
"Ultrabroadband Er:fiber Lasers and Few-cycle Physics of Condensed Matter"
- 14:30-14:50 Andy Kung (National Tsing Hua University, Taiwan) *Contributed*
"Synthesis and Measurement of Sub-femtosecond Subcycle Periodic Pulses"
- 14:50-15:10 Eleftherios Goulielmakis (MPI of Quantum Optics, Germany) *Contributed*
"Sub-optical-cycle waveform light synthesis: Attosecond triggering and clocking of electron dynamics"
- 15:10-15:30 **Coffee break**

Session D

- 15:30-16:00 Johan Mauritsson (Lund Institute of Technology, Sweden) *Invited*
"Attosecond Electron Interferometry"
- 16:00-16:20 Andrew D Shiner (NRC / University of Ottawa, Canada) *Contributed*
"Probing collective multi-electron dynamics with high harmonic spectroscopy – the giant resonance in xenon"
- 16:20-16:50 David Villeneuve (NRC, Canada) *Invited*
"Attosecond High Harmonic Spectroscopy of a Unimolecular Dissociation"
- 16:50-17:10 Eugene Frumker (University of Ottawa / NRC, Canada) *Contributed*
"High Harmonic Generation with oriented molecules"

Friday, July 8, 2011

Session E

- 9:00-9:30 Paul Corkum (University of Ottawa / NRC, Canada) *Invited*
"Tunneling and High Harmonic Spectroscopy"
- 9:30-10:00 Stefan Haessler (Vienna University of Technology, Austria) *Invited*
"Challenges in self-probing of molecules, to be met by a waveform synthesizer"
- 10:00-10:20 Caterina Vozzi (CNR-IFN, Italy) *Contributed*
"A generalized approach to molecular orbital tomography"
- 10:20-10:40 **Coffee break**
- 10:40-11:10 Chii-Dong Lin (Kansas State University, USA) *Invited*
"Strong Field Rescattering Physics: ultrafast self-imaging of a molecule by its own electrons"
- 11:10-11:30 Adrian Nikolaus Pfeiffer (ETH Zurich, Switzerland) *Contributed*
"Sequential double ionization: the timing of release"
- 11:30-12:00 Günter Steinmeyer (Optoelectronics Research Center, Finland / MBI, Germany) *Invited*
"Self-referenced scheme for direct synthesis carrier-envelope phase stable pulses with jitter below the atomic time"
- 12:00-13:30 **Lunch**

Session F

- 13:30-14:00 Chang Hee Nam (KAIST, Korea) *Invited*
"Ultrafast photoionization dynamics of He"
- 14:00-14:20 Huailiang Xu (Jilin University, China) *Contributed*
"Ultrafast delocalization of protons in allene in intense laser fields"
- 14:20-14:50 Alexander Sergeev (Institute of Applied Physics, Russia) *Invited*
"Ultrarelativistic nanoplasmonics: towards extreme intensity attosecond pulses"
- 14:50-15:10 Elisabeth Monika Bothschafter (TU Munich, Germany) *Contributed*
"Absolute Timescale in Attosecond Photoelectron Emission from Solids"
- 15:10-15:30 Cord L. Arnold (Lund University, Sweden) *Contributed*
"Photoemission electron microscopy in an attosecond pump-probe beamline - attoPEEM"
- 15:30-18:00 **Poster session**
- 19:00-21:00 **Dinner banquet at ANA Hotel Sapporo**