## **IMPRS-APS Annual Meeting**

## Ringberg Castle, July 15-18, 2012

## Program

Monday, July 16 <sup>th</sup>	
8:00 to 9:00	Breakfast
9:00	Welcome
Session I	
9:10 – 9:35	Casey Chew Progress Report of Time-of-Flight Photoemission Electron Microscopy using Ultrashort Laser Pulses
9:35 – 10:00	Alexander Gliserin Compression of Single-Electron Pulses with Microwave Fields -
	Characterization in the Energy Domain
10:00 – 10:25	Matt Walbran Single Electron Compression for Ultrafast Electron Diffraction
10:25 – 10:50	Coffee Break
10:50 – 11:15	<b>Jianhui Bin</b> A Laser-Driven Nanosecond Proton Source for Radiobiological Studies, Part I
11:15 – 11:40	<b>Nicole Humble</b> A Laser-Driven Nanosecond Proton Source for Radiobiological Studies, Part II
11:40 – 12:05	Deniz Tuna
	Quantum Chemical Investigations into the Photophysics and
	Photochemistry of Bioorganic Molecules
12:30 - 14:00	Lunch
Session II	
14:00 – 14:25	Lauryna Lötscher Single-Pass High-Harmonic Generation at 50 MHz Repetition Rate
14:25 – 14:50	Daniel Rivas

	5-fs, Multi-Terawatt Optical Parametric Chirped Pulse Amplifier
	Development
14:50 – 15:15	Vinay Pramod Majety Interfacing Quantum Chemistry with Physics: Transition Probabilities for Molecular Single Photo-Ionization
15:15 – 15:40	Xiaoqing Zhou Control of Microwave Signals Using Circuit Nano- Electromechanics
15:40 – 16:05	Coffee Break
16:05 – 16:30	Johannes Wenz X-Ray Phase-Contrast Tomography from a Laser-Driven Betatron Source
16:30 – 16:55	Shao-Wei Chao Progress of Electron Acceleration
16:55 – 17:20	Sebastian Raith
	Longitudinal Position-Energy Correlation of Laser-Accelerated
	Electrons
17:20 – 17:45	Michael Förster
	Metal Nanotips Illuminated with Few-Cycle Pulses
17:45 – 18:10	Constantin Klier
	PIC Code for Strong-Field Plasma Physics: Current Status
18:30	Dinner
Tuesday, July 17 <sup>th</sup>	
8:00 – 9:00	Breakfast
Session III	
9:00 – 9:25	Elisabeth Bothschafter Attosecond Transient Absorption of SiO <sub>2</sub>
9:25 – 9:50	Annkatrin Sommer Attosecond Time-Resolved Investigation of Dynamics in Solid Systems

9:50 – 10:15	Kellie Pearce Using PEEM to Investigation Propagation Dynamics of SPPs
10:15 – 10:40	Coffee break
10:40 – 11:05	Sandro Klingebiel Overview and Status of the PFS Laser
11:05 – 11:30	Christoph Wandt Development of Diode-Pumped Yb:YAG Multi-pass Amplifiers
11:30 – 11:55	Alexander Kessel Ultra-Broadband Seed Generation by Noncollinear OPA
11:55 – 12:05	Alissa Wiengarten Structural and Electronic Properties of Functional Molecules on Surfaces
12:30	Lunch
Session IV	
14:00 – 14:25	Antoine Moulet Real-Time Observation of Transient Induced Field-Ionization
14:25 – 14:50	Alexander Schwarz Sub-two cycle IR OPCPA for HHG
14:50 – 15:15	<b>Tim Paasch-Colberg</b> Control of Electric Currents in Solids at the Frequency of Visible Light
15:15 – 15:40	Sabine Keiber Controlling Electron Dynamics in Solids with Synthesized Infrared Electric Fields
15:40 – 16:05	Coffee break
16:05 – 16:30	Katharina Doblhoff Carrier-Envelope-Phase-Dependent Fragmentation of $C_2H_2^{2+}$
16:30 – 16:55	Robert Grummt On the Justification of the Dipole Approximation
16:55 – 17:20	Michael Korbman Interaction Between a Strong Field and a Dielectric
17:20 – 17:45	Mattia Lupetti

High Harmonic Generation	in Tapered Nanoplasmonic
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Waveguides

### 17:45 – 18:10 **Daniel Strobusch**

A General Kinetic Energy Operator in Arbitrary Coordinates

18:30 **Bavarian Evening** 

# Wednesday, July 18<sup>th</sup>

8:00 – 9:00	Breakfast
<b>Session V</b> 9:00 – 9:25	Matthias Kübel Nonsequential Double Ionization: From the Single- to the Many-Cycle Regime
9:25 – 9:50	Renate Pazourek Theory of Attosecond Delays in Photoionization
9:50 – 10:15	Michael Jobst Recent Progress in Attosecond Electron Dynamics in Molecules
10:15 – 10:50	Coffee break
10:50 – 11:15	Sebastian Thomas Enhanced Optical Near-Fields at Sharp Metal Tips
11:15 – 11:40	Georg Wachter Theoretical Aspects of Laser-Nanotip Interaction
11:40 – 12:05	Marcus Seidel Population and Dynamics of Two-Exciton States in PBI J-Aggregates
12:30	Lunch