Sunday, 27 January 2013

17:00 – 21:00 Registration

18:00 WELCOME SUPPER

Monday, 28 January 2013

07:30	BREAKFAST	
08:30 - 09:00	Manfred Lein Ernst Dreisigacker	Welcome words About the Wilhelm and Else Heraeus Foundation
09:00	CORRELATION & MOLE	ECULES: Chair Hans Jakob Wörner
09:05 - 09:50	David Villeneuve	Inner shell excitation during high harmonic generation – the giant resonance in Xenon
09:50 – 10:35	Alejandro Saenz	Molecular high-harmonic spectra: From molecular hydrogen to water molecules
10:35 – 11:00	COFFEE BREAK	
11:00 – 11:45	Caterina Vozzi	High-order harmonic spectroscopy: towards dynamic molecular imaging
11:45 – 12:10	Ágnes Vibók	Simulation of laser-induced quantum dynamics of the electronic and nuclear motion in the ozone molecule on the attosecond time scale
12:15	Conference Photo (in the	front of the Physikzentrum)
12:20	LUNCH	

Monday, 28 January 2013

14:30	STRONG-FIELD IONIZATION: Chair Misha Ivanov	
14:35 – 15:20	Jan Michael Rost	Soft and hard recollisions in light matter interaction
15:20 – 16:05	Alexandra Landsman	Tunneling time is real in attosecond science
16:05 – 16:30	COFFEE BREAK	
16:30 – 17:15	Camilo Ruiz	lonization dynamics in single and double ionization of Helium
17:15 – 18:15	Poster previews	
18:15	DINNER	
19:30	Poster session	

Tuesday, 29 January 2013

08:00	BREAKFAST	
09:00	ATTOSECOND PHYSICS:	Chair Christian Spielmann
09:05 - 09:50	Reinhard Kienberger	Attosecond spectroscopy on molecules and solid surfaces
09:50 – 10:35	Armin Scrinzi	Electron and harmonic spectra at elliptic polarization
10:35 – 11:00	COFFEE BREAK	
11:00 – 11:45	Nirit Dudovich	Looking inside the recollision process
11:45 – 12:10	Katharina Doblhoff-Dier	Attosecond-recollision-controlled selective fragmentation of acetylene ²⁺
12:15	LUNCH	

Tuesday, 29 January 2013

14:30	XUV SPECTROSCOPY	: Chair Alfred Maquet
14:35 – 15:20	Markus Drescher	Tracing electron correlation dynamics with the THz streak camera
15:20 – 16:05	Thomas Pfeifer	Multidimensional soft-x-ray spectroscopy with high harmonics: Tuning from perturbative to strong coupling of two excited electrons, and Fano control, in Helium atoms
16:05 – 16:30	COFFEE BREAK	
16:30 – 17:15	Helmut Zacharias	High harmonic photoelectron spectroscopy at surfaces
17:15 – 18:00	Horst Rottke	Tracking of a Fano-wavepacket in the ionization continuum of an atom
18:15	DINNER	
19:30	Poster session	

Wednesday, 30 January 2013

08:00	BREAKFAST	
09:00	MOLECULES: Chair Stefan Hässler	
09:05 – 09:50	Pascal Salières	Phase distortions of attosecond pulses induced by electronic resonances and dynamical interferences
09:50 – 10:35	Carla Figueira de Morisson Faria	Quantum interference, multiple orbitals and Bohmian-trajectory analysis of high-harmonic generation
10:35 – 11:00	COFFEE BREAK	
11:00 – 11:45	Lars Madsen	Tunneling ionization of molecules and multiphoton above threshold effects in strong-field fragmentation
11:45 – 12:10	Peter Kraus	High-harmonic spectroscopy of oriented polyatomic molecules
12:15	LUNCH	

Wednesday, 30 January 2013

Free time

16:00 - 16:15 COFFEE BREAK

16:15 HHG AND APPLICATIONS: Chair David Villeneuve

16:20 – 17:05 Olga Smirnova Attosecond larmor clock

17:05 – 17:50 Bernd Abel Ultrafast soft X-ray photoelectron

spectroscopy at liquid water microjets

17:50 – 18:15 Alexander Blättermann High-order harmonic generation at 4

MHz repetition rate using a sub-μJ Ti-

sapphire femtosecond oscillator

18:15 CONFERENCE DINNER

Followed by a social evening on invitation of the Wilhelm and Else Heraeus Foundation in the Physikzentrum

Thursday, 31 January 2013

08:00		BREAKFAST	
09:00		CONTROL OF HHG: CH	nair Giuseppe Sansone
09:05	- 09:50	Yann Mairesse	High harmonic spectroscopy of SF ₆ molecules
09:50	– 10:35	Thomas Halfmann	Adiabatically-enhanced frequency conversion
10:35	– 11:00	COFFEE BREAK	
11:00	– 11:45	Amelle Zaïr	Molecular internal dynamics studied by quantum path interferences in high order harmonic generation
11:45	- 12:10	Vasily Strelkov	Theory of resonant high harmonic generation as a four-step process
12:15		LUNCH	

Thursday, 31 January 2013

14:30	ALTERNATIVE HHG SOURCES: Chair Milutin Kovacev	
14:35 – 15:20	Gerhard Paulus	Observation of amplified emission in relativistic surface high-harmonic generation
15:20 – 16:05	Rashid Ganeev	High-order harmonic generation in laser plasma plumes: recent trends
16:05 – 16:30	COFFEE BREAK	
16:30 – 17:15	Ingmar Hartl	Frequency combs and precision spectroscopy in the extreme ultraviolet
17:15 – 17:40	Heiko Kurz	Systematic studies of high-order harmonic generation from water microdroplets
17:40 – 17:45	Concluding remarks and awarding of the poster prizes	
18:00	DINNER	
19:30	Poster session	

Friday, 1 February 2013

08:00 BREAKFAST

End of the seminar and departure