

PROGRAMME

Sunday, 8.6.2014	
14:00-19:00	Registration
19:00	Welcome reception

Monday, 9.6.2014	
8:45 - 9:00	Welcome
THz driven phenomena	
Chair: Dragan Mihailovic	
9:00 - 9:30	Hiroshi Okamoto: Ultrafast control of ferroelectric polarizations by terahertz fields in organic ferroelectrics
9:30 - 10:00	Shinichiro Iwai: Optical control of correlated charge driven by 10 MV/cm ac field of 1.5-cycle infrared pulse in organic conductor
10:00 - 10:30	Rupert Huber: Sub-cycle charge and spin control with phase-locked multi-terahertz fields
10:30 - 11:00	Ryo Shimano: Ultrafast Dynamics of Higgs Amplitude Mode in S-Wave Superconductors Induced by Intense Terahertz Pulse Excitation
11:00 - 11:20	<i>Coffee break</i>
PIPT in organics I	
Chair: Hiroshi Okamoto	
11:20 - 11:50	German Sciaini: Ultrabright femtosecond electron source captures key molecular motions in the photoinduced insulator-to-metal phase transition of (EDO-TTF) ₂ PF ₆
11:50 - 12:20	Kenji Yonemitsu: Pulsed vs. CW Laser Excitations: Different Controlling Mechanisms of Photoinduced Charge-Order Melting in Molecular Crystals
12:20 - 12:40	Kunio Ishida: Spatio-temporal Behavior of Atomic Displacement Parameters during Collective Relaxation of Franck-Condon States
12:40 - 13:00	Tadahiko Ishikawa: Photo-induced dynamics of Pt(dmit) ₂ salts studied by optical spectroscopy and electron-diffraction technique
13:00 - 14:30	<i>Lunch</i>
PIPT in organics II	
Chair: Kenji Yonemitsu	
14:30 - 15:00	Shin-ya Koshihara: Dynamical Role of Hidden Faces in Photo-Functional Materials
15:00 - 15:30	Hiroko Tokoro: Photo-induced phase transition with magnetic change in cyano-bridged bimetallic assemblies
15:30 - 15:55	Ken Onda: Photofunction of organic materials studied by time-resolved infrared vibrational spectroscopy
15:55 - 16:20	Natasha Kirova: Modeling of local phase transformations induced by optical pumping to excitons: applications to neutral-ionic transitions
16:20 - 16:40	<i>Coffee break</i>
Novel techniques I	
Chair: Shin-ya Koshihara	
16:40 - 17:10	R. J. Dwayne Miller: Mapping Atomic Motions with Ultrabright Electrons: The Chemists' Gedanken Experiment Enters the Lab Frame
17:10 - 17:40	Steven Johnson: Tracking femtosecond dynamics of spins and the lattice with x-ray diffraction
17:40 - 18:05	Brett Barwick: Imaging plasmonic Fabry-Pérot resonances with ultrafast electron microscopy
18:05 - 19:05	POSTER SESSION

Tuesday, 10.6.2014	
Spin related phenomena I	
Chair: Markus Münzenberg	
8:30 - 9:00	Theo Rasing: All optical control of magnetism: From fundamentals to nanoscale reversal
9:00 - 9:30	Paul van Loosdrecht: Transient magnetism in EuO
9:30 - 10:00	Hermann A. Dürr: Dissentangling the nanoscale angular momentum pathways during all-optical magnetic switching
10:00 - 10:25	Yoichi Okimoto: Ultrafast dynamics in spin crossover cobaltites
10:25 - 10:40	Isabelle Maurin: Confinement effects in photostrictive/magnetostrictive core-shell particles based on Prussian blue analogues
10:40 - 11:00	<i>Coffee break</i>
Spin related phenomena II	
Chair: Theo Rasing	
11:00 - 11:30	Alexey V. Kimel: Controlling, Probing and Harnessing the Strongest Force in Magnetism
11:30 - 12:00	Markus Münzenberg: Speed limit for FePt spin dynamics on femtosecond timescales
12:00 - 12:20	Hiroshi Watanabe: Interfering long-lived spin precessions induced by a THz pulse in ErFeO ₃
12:20 - 12:40	Johan Mentink: Ultrafast quenching of the exchange interaction in a Mott-insulator
12:40 - 12:55	Andrea Marino: Exploring different pathways across the potential energy surface in the early process of photoinduced spin-state switching
13:00 - 14:30	<i>Lunch</i>
Surface, Interface & topological insulators I	
Chair: R. J. Dwayne Miller	
14:30 - 15:00	Fabrizio Carbone: Photo-induced ordering phenomena in 2D homoligand gold nanoparticles
15:00 - 15:30	Michael Horn von Hoegen: Ultrafast Time Resolved Electron Diffraction at Surfaces: Watching the Atoms Freeze
15:30 - 15:55	Rohit Prasankumar: Using Ultrafast Optical Spectroscopy to Explore Magnetoelectric Coupling in Multiferroic Oxide Heterostructures
15:55 - 16:20	Naoki Ogawa: Photocontrol of Dirac electrons in a bulk Rashba semiconductor
16:20 - 16:40	<i>Coffee break</i>
Surface, Interface & topological insulators II	
Chair: Jim Freericks	
16:40 - 17:00	Tohru Suemoto: Femtosecond mid-infrared luminescence and its layer-number dependence in graphenes
17:00 - 17:20	Koichiro Tanaka: Transient spin polarized current induced by femtosecond pulse excitation in topological insulators
17:20 - 17:40	Keiki Fukumoto: Imaging of photo-generated carrier dynamics in semiconductor using femtosecond time-resolved photoemission electron microscopy
17:40 - 17:55	Hugo U. R. Strand: Interaction quench dynamics of the Bose-Hubbard model
17:55 - 18:55	POSTER SESSION

Wednesday, 11.6.2014	
Cuprates I	
Chair: Fabrizio Carbone	
8:30 - 9:00	Yasunori Toda: Polarized femtosecond spectroscopy for quasiparticle dynamics associated with symmetry breaking in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+d}$
9:00 - 9:25	Cassandra Hunt: Light-induced coherence enhancement in cuprates
9:25 - 9:45	Federico Cilento: Photoinduced antinodal metallicity in the pseudogap state of high-Tc cuprates
9:45 - 10:05	Ryo Fukaya: Ultrafast paired-carrier coherence control in two-leg ladder cuprate
Cuprates II	
Chair: Yasunori Toda	
10:05 - 10:25	Tatsuya Miyamoto: Ultrafast dynamics of photoinduced Mott insulator-metal transition in an undoped 2D cuprate Nd_2CuO_4
10:25 - 10:45	Ljupka Stojčevska Malbašić: Mechanisms of nonthermal destruction of the superconducting state and melting of the charge-density-wave state by femtosecond laser
10:45 - 11:05	<i>Coffee break</i>
11:05 - 11:35	Luca Perfetti: Dynamics of fluctuations in high temperature superconductors far from equilibrium conditions
Insulator-Metal transitions	
Chair: Herve Cailleau	
11:35 - 12:00	Bradley J. Siwick: On the contribution of Mott and Peierls instabilities to the semiconductor-metal transition in VO_2
12:00 - 12:20	Marc Herzog: Metallization in an instant – The photoinduced phase transition of VO_2
12:20 - 12:40	Martin Eckstein: Relaxation dynamics of photo-induced carriers studied within dynamical mean-field theory
12:40 – 13:00	Elsa Abreu: Dynamic scaling of the insulator to metal transition in high quality V_2O_3 thin films
13:00 - 13:15	Etienne Janod: Insulator to metal transition induced by an electronic avalanche in the narrow gap Mott Insulators AM_4Q_8 (A=Ga,Ge; M = V, Nb, Ta ; Q = S, Se)
13:15 - 14:40	<i>Lunch</i>
15:00	EXCURSION

Thursday, 12.6.2014	
Density waves I	
Chair: Luca Perfetti	
8:30 - 9:00	Michael Bauer: Ultrafast modulation of the chemical potential in BaFe ₂ As ₂ by coherent phonons
9:00 - 9:30	Martin Wolf: Ultrafast dynamics of insulator-to-metal transitions probed by time-resolved ARPES
9:30 - 10:00	Jure Demšar: Ultrafast Metamorphosis of a Complex Charge-Density Wave
10:00 - 10:25	Claude Monney: Ultrafast recovery of the CDW phase in TiSe ₂ due to electron-hole scattering
10:25 - 10:40	Hiroshi Hashimoto: Photo-induced dynamics in frustrated charge ordered systems
10:40 - 11:00	<i>Coffee break</i>
Density waves II	
Chair: Michael Bauer	
11:00 - 11:30	Uwe Bovensiepen: Non-equilibrium electronic structure of transient states in solid materials driven by femtosecond laser pulses
11:30 - 12:00	Jim Freericks: Quantum excitation and time-resolved PES in charge-density-wave insulators
12:00 - 12:30	Viktor Kabanov: Electronic relaxation in a metal excited by an ultrashort optical pump
12:30 - 12:50	Kaoru Iwano: Photoinduced Electronic Domain Formation and Its Many-body Properties Expected for a Two-dimensional Charge-ordering System
13:00 - 14:30	<i>Lunch</i>
Metastable/switched states I	
Chair: Uwe Bovensiepen	
14:30 - 15:00	Keiichiro Nasu: How much time necessary to photo-generate Fermi surface from true electron vacuum
15:00 - 15:25	Tomaž Mertelj: Femtosecond Switching to a Stable Hidden Quantum State in an Electronic Crystal
15:25 - 15:55	Patrick S. Kirchman: Towards a Microscopic Picture of the Photo-Induced, Metastable State in TaS ₂
15:55 - 16:25	Serguei Brazovski: Modeling of evolution of a complex electronic system to an ordered hidden state: application to optical quench in TaS ₂
16:25 - 16:45	<i>Coffee break</i>
Metastable/switched states II	
Chair: Keiichiro Nasu	
16:45 - 17:10	Chong-Yu Ruan: Optical exploration of hidden phases in correlated electron materials visualized by femtosecond electron crystallography
17:10 - 17:30	Lutz Waldecker: Ultrafast optical response and structural dynamics of the photoinduced phase transition of phase change materials
17:30 - 17:50	Roman Bertoni: Mecano-elastic switching in solids- Alternative route to PIPT
17:50 - 18:10	Samuel W. Teitelbaum: Irreversible Photoinduced Phase Transitions Studied By Single-Shot Pump-Probe Spectroscopy
19:00	CONFERENCE DINNER

Friday, 13.6.2014	
Novel techniques II	
Chair: Martin Wolf	
8:30 - 9:00	Maciej Lorenc: Ultrafast Dynamics probed with pulsed X-rays
9:00 - 9:30	Thomas Elsaesser: Nonequilibrium electron density maps of ionic crystals from femtosecond x-ray powder diffraction
9:30 - 9:50	Timothy Miller: Domain Alignment and Switching in Correlated Materials by THz Fields
Correlated systems I	
Chair: Thomas Elsaesser	
9:50 - 10:20	Peter Prelovšek: Charge recombination and relaxation in photoexcited Mott-Hubbard insulators
10:20 - 10:50	Steven D. Conradson: A Gap Opening Transition in a Quantum Phase of Photoinduced Quasiparticles in the Partly Filled Mott Insulator UO_{2+x}
10:50 - 11:10	<i>Coffee break</i>
Correlated systems II	
Chair: Peter Prelovšek	
11:10 - 11:40	Sumio Ishihara: Ultrafast Photoinduced Electron Dynamics in Mott Insulators and Correlated Metals
11:40 - 12:10	Takami Tohyama: Photo-induced electron dynamics in one-dimensional extended Hubbard model
12:10 - 12:30	Tetsuo Ogawa: Equilibrium and Nonequilibrium “Condensations” in Polariton Many-Body Systems
12:30 - 12:45	Jan Kogoj: Unusual Two-stage Dynamics of the Spin-Lattice Polaron Formation
12:45 - 13:00	CLOSING
13:00 - 14:30	<i>Lunch</i>
	DEPARTURE