

Time-resolved Photoelectron Spectroscopy from tabletop UV and HHG laser sources, Synchrotrons and FELs: experiments and challenges

25-27 January 2017 Trieste, Italy

Program

Wednesday, 25th January 2017

8:30-9:00	Registration
9:00-9:15	Presentation Alfonso Franciosi (University of Trieste / Elettra - Sincrotrone Trieste, Italy)
9:15-9:30	Introduction Fulvio Parmigiani (University of Trieste, Italy)
Session 1	
9:30-10:00	Uwe Bovensiepen (University of Duisburg-Essen, Germany) Energy dissipation from a correlated system driven out of equilibrium
10:00-10:30	Alexander Kemper (North Carolina State University, United States) Theoretical modeling of non-equilibrium spectroscopy
10:30-11:00	Ettore Carpene (CNR-IFN / Politecnico di Milano, Italy) Transient photo-induced melting of charge-density-wave in 1T-TiSe₂: a femtosecond time-resolved photoemission investigation
11:00-11:30	<i>Coffee break</i>
11:30-12:00	Luca Perfetti (Ecole Polytechnique, France) Electrons dynamics at the surface of CH₃NH₃PbI₃
12:00-12:30	Marino Marsi (Université Paris-Sud, France) Ultrafast evolution of the prototype out-of-equilibrium Mott-Hubbard material V₂O₃
12:30-13:00	Matteo Montagnese (Universität zu Köln, Germany) Controlling the mass of confined electrons with light in graphite
13:00-14:30	<i>Lunch</i>
Session 2	
14:30-15:00	Philip Hofmann (Aarhus University, Denmark) Electron Dynamics in Single-Layer Transition Metal Dichalcogenides
15:00-15:30	Alberto Crepaldi (École polytechnique fédérale de Lausanne, Switzerland) Novel topological phases of matter: an ultrafast view
15:30-16:00	Michele Puppin (Fritz Haber Institute of the Max Planck Society, Germany) Excited-state band mapping with XUV-based trARPES
16:00-16:30	<i>Coffee break</i>
16:30-17:00	Martin Wolf (Fritz-Haber-Institut (MPI) Berlin, Germany) Ultrafast Excited State Dynamics and Insulator-to-Metal Transitions probed by trARPES
17:00-17:30	Jens Güdde (Philipps-Universität Marburg, Germany) Investigation of the intervalley scattering dynamics in MoS₂ by two-photon photoemission with a high-harmonic probe at 100 kHz repetition rate
17:30-19:00	Poster session



Thursday, 26th January 2017

Session 3	
9:30-10:00	Robert A. Kaindl (Lawrence Berkeley National Laboratory, United States) High-repetition-rate XUV trARPES: A Sensitive Probe of Ultrafast Materials Dynamics
10:00-10:30	Cephise Cacho (Central Laser Facility, United Kingdom) Tracking electron dynamics in Graphene and TMDCs
10:30-11:00	Iwao Matsuda (University of Tokyo, Japan) Chronology of Photo-Excited Carriers at Surfaces Studied by Time-Resolved Photoemission Spectroscopy
11:00-11:30	<i>Coffee break</i>
11:30-12:00	Jonathan Sobota (Stanford University, United States) Electron-Phonon Coupling and Unoccupied States in Quantum Materials
12:00-12:30	Mirko Cinchetti (Technische Universität Dortmund, Germany) Dynamic spin filtering at the Co-Alq₃ interface mediated by weakly coupled second layer molecules
12:30-13:00	Stefania Pagliara (Università Cattolica, Italy) Influence of graphene on the interface states with selected transition metals (Ir, Cu, Ni)
13:00-14:30	<i>Lunch break</i>
Session 4	
14:30-15:00	Jürgen Braun (LMU Munich, Germany) Recent developments in the one-step description of time-resolved photoemission
15:00-15:30	Martin Weinelt (Freie Universität Berlin, Germany) Signatures of ultrafast magnetization dynamics in the electronic band structure
15:30-16:00	Francesco Randi (University of Trieste, Italy) Bypassing the energy-time uncertainty in time-resolved photoemission
16:00-16:30	<i>Coffee break</i>
16:30-17:00	Tommaso Pincelli (University of Milan, Italy) Ultrafast Magnetization Relaxation Dynamics in La_{0.66}Sr_{0.33}MnO₃ Films
17:00-17:30	Andrea Sterzi (University of Trieste, Italy) Time resolved ARPES on n-doped and p-doped Topological Insulators
17:30-18:00	Christian Tusche (Forschungszentrum Jülich GmbH, Germany) Multi-MHz time-of-flight electronic bandstructure imaging of graphene on Ir(111)
19:30-22:30	<i>Social Dinner</i>

Friday, 27th January 2017

Session 5	
9:00-9:30	Claudio Masciovecchio (Elettra - Sincrotrone Trieste, Italy) Frontier research at FERMI
9:30-10:00	Martina Dell'Angela (CNR-IOM, Italy) Femtosecond X-ray Photoemission Spectroscopy for Femtochemistry and Photovoltaics
10:00-10:30	Fausto Sirotti (CNRS Polytechnique, France) Magnetic and electronic properties during laser induced phase transitions
10:30-10:45	Conclusions Fulvio Parmigiani (University of Trieste, Italy), Giorgio Rossi (University of Milan, Italy)
10:45-11:00	<i>Coffee break</i>
11:00-12:30	Round table