



ULTRAFAST DYNAMICS AND TIME-RESOLVED INTERACTIONS WORKSHOP PROGRAMME

27th June, 2016

8:40 – 8:50	Catalin Miron (ELI-DC / ELI-NP) and Dimitris Charalambidis (FORTH / ELI-ALPS) <i>Welcome word by the Chairs</i>
Photoionization Dynamics	
8:50 – 9:20	Thierry Ruchon – CEA Saclay (France) <i>Attosecond Light and Electronic Vortices</i>
9:20 – 9:50	Per Johnsson – Lund University & Lund Laser Center (Sweden) <i>Intense XUV Attosecond Experiments - from the Lund Laser Centre to ELI-ALPS</i>
9:50 – 10:20	Paris Tzallas – ELI-ALPS (Hungary) / FORTH (Greece) <i>Quantitative Measurements in the Non-linear XUV Regime</i>
10:20 – 10:50	Richard Taïeb – Université Pierre et Marie Curie (France) <i>Title</i>
10:50 – 11:10	<i>Coffee break</i>
Time Domain Studies in the Nanoworld	
11:10 – 11:40	Morishita Toru – University of Electro Communications, Tokyo (Japan) <i>Near-Forward Rescattering Photoelectron Holography in Strong-Field Ionization: Extraction of the Phase of the Scattering Amplitude</i>
11:40 – 12:10	Michael Förster – University Erlangen-Nuernberg (Germany) <i>Photoemission at Metal Nanotips Controlled with Femtosecond Lasers</i>
12:10 – 12:40	Péter Dombi – ELI-ALPS / Wigner RCP (Hungary) <i>Ultrafast Nanoplasmonic Photoemission and Applications</i>
12:40 – 13:40	<i>Lunch</i>



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Systems in the Gas Phase	
13:40 – 14:10	Kiyoshi Ueda – Tohoku University (Japan) <i>Ultrafast Electron and Molecular Dynamics Induced by Ultrashort XFEL Pulses</i>
14:10 – 14:40	Nora Kling – University of Connecticut (USA) <i>Steering and Visualizing Hydrogen Migration in Hydrocarbons with Few-Cycle Pulses</i>
14:40 – 15:10	Michael Meyer – European XFEL (Germany) <i>Electron Dynamics in One- and two-color multi-photon ionization of atoms</i>
15:10 – 15:40	Ágnes Vibók – ELI-ALPS / University of Debrecen (Hungary) <i>Attosecond Electronic and Nuclear Quantum Photodynamics of Ozone: Angle Resolved Photoelectron Spectra</i>
15:40 – 16:00	Coffee break
Ultrafast Dynamics in Solids, Surfaces, and Interfaces	
16:00 – 16:30	Eleftherios Goulielmakis – MPQ Garching (Germany) <i>Optically Driven Emission of Extreme Ultraviolet Radiation from Bulk Solids: Bridging Electronics and Photonics</i>
16:30 – 17:00	Marino Marsi – Université Paris-Saclay (France) <i>Ultrafast Electron Dynamics in Complex Materials</i>
The ELI-ALPS Facility	
17:00 – 17:30	Károly Osvay – ELI-ALPS (Hungary) <i>Title</i>
17:30 – 19:30	Construction site visit
20:00	Dinner
Magnetisation, Spin, and Magnetic Domain Dynamics	
8:30 – 9:00	Christian Bressler – European XFEL (Germany) <i>Chemical Dynamics Visualized with Femtosecond X-Ray Experiments</i>
9:00 – 9:30	Alberto Crepaldi – EPFL Lausanne (Switzerland) <i>Out-of-Equilibrium Electronic Properties of Topological Insulators Investigated by Time Resolved ARPES</i>
9:30 – 10:00	Marie Barthelemy – IPCMS, Strasbourg (France) <i>Coherent Control of Magnetization Precession</i>
10:00 – 10:30	Stefan Mathias – University of Göttingen (Germany) <i>Ultrafast Magnetization Dynamics Probed with XUV Pulses from HHG via Magneto-Optics and Spin-Resolved ARPES</i>
10:30 – 11:00	Coffee break

Ultrafast Molecular Dynamics

11:00 – 11:30	Kaoru Yamanouchi – University of Tokyo (Japan) <i>Fast and Slow Dynamics of Hydrogen Atoms in Methanol Induced by Few-Cycle Intense Laser Pulses: Migration of Hydrogen Atoms and Ejection of H₃⁺</i>
11:30 – 12:00	Christophe Nicolas – Synchrotron SOLEIL (France) <i>X-Ray-Induced Ultrafast Dissociation of O₂ Molecule: a Materialization of the Einstein-Bohr's Gedanken Experiment</i>
12:00 – 12:30	Caterina Vozzi – Politecnico di Milano (Italy) <i>Attosecond Probing of Multi-Electron Dynamics in Xenon by Cutoff Trajectories in High-Order Harmonic Generation</i>
12:30 – 13:00	Raimund Feifel – University of Gothenburg (Sweden) <i>Ultrafast Molecular Three-Electron Collective Auger Decay of Double Inner Shell Vacancies</i>
13:00 – 14:00	Lunch

Short Wavelength Sources for Time Resolved Experiments

14:00 – 14:30	Victor Kimberg – KTH Stockholm (Sweden) <i>Stochastic Stimulated Electronic X-Ray Raman Spectroscopy</i>
14:30 – 15:00	Ryan Coffee – LCLS Stanford (USA) <i>Toward Connecting Molecular Structure with Chemical Function by Using Strong Field Optical Control to Combine Time and Angle Resolved Auger Electron Spectroscopy with Ultrafast Electron Diffraction</i>
15:00 – 15:30	Hiromitsu Tomizawa – SACLA/RIKEN (Japan) <i>Facility Status and Perspectives of Unique Synergy Experiments Provided by Combination of SACLA XFEL, SPring-8 Synchrotron Radiation, and a Twin Petawatt-Class Optical Laser</i>
15:30 – 16:00	Adrian Cavalieri – MPSD Hamburg (Germany) <i>Sub-Cycle Interrogation of Field-Driven Dynamics at X-ray Free-Electron Lasers</i>
16:00 – 16:10	Closing remarks
	Coffee