International Workshop on Photoionization & **Resonant Inelastic X-ray Scattering IWP-RIXS 2017**

Aussois, France

26th - 31st of March 2017

Programme

Sunday, March 26th

17:00 - 19:30 Registration

19:30 - 21:30 Welcome reception

Monday, March 27th

08:30 - 08:45 Welcome

Session 1

FEL Non equilibrium matter

Chairperson: Linda Young

Invited Talk 08:45 - 09:15

Stimulated X-ray Raman scattering in molecular targets - A critical study of the building block of

coherent nonlinear X-ray spectroscopy

Nina Rohringer - MPSD, Hamburg, Germany

Invited Talk 09:15 - 09:45

Non-equilibrium Processes within X-Ray FEL Generated Plasmas

Beata Ziaja-Motyka - CFEL DESY, Hamburg, Germany

09:45 - 10:15 **Invited Talk**

Femtosecond response of polyatomic molecules to intense soft and hard X-rays

Rebecca Boll - DESY, Hamburg, Germany

10:15 - 10:45 Coffee break

Session 2

Atto and Ultra-fast processes

Chairperson: Nina Rohringer

10:45 - 11:15 **Invited Talk**

Attosecond dynamics through Fano resonances

Fernando Martin - Universidad Autónoma de Madrid, Spain

11:15 - 11:45 **Invited Talk**

Observing atoms and molecules change their shape in short and strong laser fields

Thomas Pfeiffer - MPIK, Heidelberg, Germany

11:45 - 12:15	Invited Talk Tracking in real-time attosecond inelastic scattering in dielectrics Francesca Calegari - CNR-IFN, Milano, Italy	
12:15 - 12:45	Invited Talk Attosecond electron dynamics in molecules and liquids Hans-Jacob Wörner - ETH, Zürich, Switzerland	
13:00 - 14:30	Lunch	
	Session 3 RIXS 1	
	Chairperson: Yoshihisa Harada	
14:30 - 15:00	Invited Talk Mapping potential energy surfaces and dynamics around selected atoms with RIXS Alexander Föhlisch - BESSY, Berlin, Germany	
15:00 - 15:30	Invited Talk Symmetry breaking in soft X-ray resonant inelastic scattering on molecules Jan-Erik Rubensson - Uppsala University, Sweden	
15:30 - 16:00	Invited Talk Electron and nuclear dynamics in deeply core-excited molecules Tatiana Marchenko - UPMC, Paris, France	
16:00 - 16:20	Theory of RIXS of water Faris Gel'mukhanov - KTH Stockholm, Sweden	
16:20 - 16:40	Excited state proton transfer in aqueous 2-mercaptopyridine studied with RIXS Jesper Norell - Stockholm University, Sweden	
16:40 - 17:00	Coffee break	
17:00 - 19:00	Poster Session	
20:00 -	Dinner	
Tuesday, March 28 th		
	Session 4 Chirality and Exotic polarization	
	Chairperson: Kiyoshi Ueda	
08:30 - 09:00	Invited Talk Photoelectron circular dichroism measured by multiphoton ionization Thomas Baumert - Kassel University, Germany	
09:00 - 09:30	Invited Talk Toward femtochemistry with circularly polarized pulses Valérie Blanchet - CELIA, Bordeaux, France	
09:30 - 09:50	Bi-elliptical high-harmonic spectroscopy as a probe of matter: From atomic orbitals to	

chiral molecules
 Denitsa Baykusheva - ETH Zurich, Switzerland
 09:50 - 10:10 Complete polarization state of high order harmonics generated from bicircular counterrotating ω and 2ω fields and probed by molecular frame photoemission
 Danielle Dowek – ISMO, Orsay, France

10:10 - 10:30	Coffee break	
10:30 - 16:30	Ski or Snowshoes	
16:30 - 17:00	Coffee break	
	Session 5 Multielectron processes	
	Chairperson: Steve Manson	
17:00 - 17:30	Invited Talk Photoionization as probe of dynamical processes Piero Decleva - Universitá di Trieste, Italy	
17:30 - 18:00	Invited Talk K²V: A new spectroscopic tool Stéphane Carniato - LCPMR, CNRS & UPMC, Paris, France	
18:00 - 18:30	Invited Talk Multiple inner shell vacancies and collective Auger decay processes Raimund Feifel, Gothenburg University, Sweden	
18:30 - 18:50	Hybrid basis close-coupling interface to quantum chemistry packages for the treatment of ionization problems Markus Klinker - Universidad Autónoma de Madrid, Spain	
18:50 - 19:10	Multi electron spectroscopy: Auger decays of the rubidium 3d hole <i>Jérôme Palaudoux</i> – <i>LCPMR</i> , <i>CNRS</i> & <i>UPMC</i> , <i>Paris</i> , <i>France</i>	
20:00	Savoyard Dinner	
Wednesday, March 29 th		

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Session 6

ICD et clusters

Chairperson: Arnaldo Naves de Brito

08:30 - 09:00	Invited Talk Multicoincidence studies of molecular photoionization – Entanglement and wavefunction imaging Reinhard Dörner - Frankfurt University, Germany
09:00 - 09:30	Invited Talk ICD and ICD cascades in multiply excited clusters Alexander I. Kuleff - Heidelberg University, Germany
09:30 - 09:50	On the computations of decay widths of Fano resonances *Tsveta Miteva - LCPMR, CNRS & UPMC, Paris, France*
09:50 - 10:10	Size-resolved photoemission anisotropies of neutral water clusters and predictions for liquid water Sebastian Hartweg - ETH Zurich, Switzerland
10:10 - 10:40	Coffee break

Session 7 Liquid jets

Chairperson: Paul Morin

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10:40 - 11:10	Invited Talk Local and non-local electronic and nuclear relaxation processes in aqueous solutions Bernd Winter - Fritz-Haber-Institut, Berlin, Germany
11:10 - 11:40	Invited Talk A superficial look at water Olle Björneholm - Uppsala University, Sweden
11:40 - 12:10	Invited Talk From distillation to biomolecules in aqueous surface: Revelations from electron spectroscopy Arnaldo Naves de Brito - UNICAMP, Campinas, Brazil
12:10 - 12:30	High energy photoemission as a probe of ultrafast charge transfer in KCI aqueous solution *Denis Céolin* – Synchrotron SOLEIL, Gif-sur-Yvette, France*
12:30 - 12:50	Optical luminescence from liquid water after excitation with Synchrotron Radiation Christian Ozga - Kassel University, Germany
13:00 - 14:30	Lunch
	Session 8 Chemistry and Nanosystems
	Chairperson: Fernando Martin
14:30 - 15:00	Invited Talk Capturing the fastest charge and spin dynamics in nanosystems using high harmonic beams Margaret Murnane - JILA, Boulder, USA
15:00 - 15:30	Invited Talk Ultrafast non equilibrium dynamics induced by attopulses Françoise Remacle - Liège University, Belgium
15:30 - 16:00	Invited Talk Double imaging coincidences techniques for product determination in gas phase complex mixtures Gustavo Garcia - Synchrotron SOLEIL, Gif-sur-Yvette, France
16:00 - 16:20	Isolated nanoparticles' surfaces and interfaces probed by soft X-ray photoelectron spectroscopy Mina Patanen - University of Oulu, Finland
16:20 - 16:40	Selective dissociation upon core-electronic excitation in unsaturated hydrocarbons Shabnam Oghbaie - Lund University, Sweden
16:40 - 17:00	Coffee break
17:00 - 19:00	Poster Session
20:00 -	Dinner

Thursday, March 30th

Session 9

Atto and Ultra-fast processes 2

Chairperson: Matjaž Žitnik

08:30 - 09:00	Invited Talk Photoionization dynamics: Transition and scattering delays Richard Taïeb - UPMC, Paris, France	
09:00 - 09:20	What can we learn from electronic-state lifetime interference in atoms and molecules? Ralph Püttner - Berlin University, Germany	
09:20 - 09:40	Photodamage and photostability of halogenated uracils under XUV HH radiation Raluca Cireasa – ISMO, Orsay, France	
09:40 - 10:00	Attosecond interferometry with self-amplified spontaneous emission of a free-electron laser Tim Laarmann – DESY, Hamburg, Germany	
10:00 - 10:20	Role of electron-nuclear coupled dynamics on charge migration induced by attosecond pulses in glycine Manuel Lara-Astiaso - Universidad Autónoma de Madrid, Spain	
10:20 - 10:40	Coffee break	
10:40 - 16:30	Ski or visit of "Haute-Maurienne" village	
16:30 - 17:00	Coffee break	
Session 10 RIXS 2		
17:00 - 17:30	RIXS 2	
17:00 - 17:30 17:30 - 18:00	RIXS 2 Chairperson: Alexander Föhlisch Invited Talk X-ray Raman spectroscopy	
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17:30 - 18:00	Chairperson: Alexander Föhlisch Invited Talk X-ray Raman spectroscopy Simo Huotari - Helsinki University, Finland Invited Talk Interference effects in high-resolution X-ray spectra Matjaž Žitnik - Jožef Stefan Institute, Ljubljana, Slovenia Invited Talk Soft X-ray experiments of samples under atmospheric pressure: X-ray emission studies of liquids, solutions, gases and interfaces at SPring-8 BL17SU	
17:30 - 18:00 18:00 - 18:30	Chairperson: Alexander Föhlisch Invited Talk X-ray Raman spectroscopy Simo Huotari - Helsinki University, Finland Invited Talk Interference effects in high-resolution X-ray spectra Matjaž Žitnik - Jožef Stefan Institute, Ljubljana, Slovenia Invited Talk Soft X-ray experiments of samples under atmospheric pressure: X-ray emission studies of liquids, solutions, gases and interfaces at SPring-8 BL17SU Takashi Tokushima - RIKEN, Saitama, Japan Probing the trans-and Cis-isomerization of azobenzene with RIXS	

13:00 - Lunch and Departure

Session 11

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Chairperson: Maria Novella Piancastel

	Chairperson. Maria Novella Plancastelli	
08:30 - 09:00	Invited Talk Multi-electron electron effects in inner-shell ionization of ions Stefan Schippers - Giessen University, Germany	
09:00 - 09:30	Invited Talk One- and two-color photoionization of atomic ions formed within an intense free-electron laser pulse Michael Meyer - XFEL, Hamburg, Germany	
09:30 - 10:00	Invited Talk Photoionization of ions stored in traps: From small carbonated systems to large biopolymers Alexandre Giuliani - INRA, Nantes / Synchrotron SOLEIL, Gif-sur-Yvette, France	
10:00 - 10:20	Dissociation dynamics of energy-selected methyl halide ions (CH ₃ X ⁺ , X=F, Cl, Br) investigated by Synchrotron photoelectron photoion coincidences <i>Xiaofeng Tang - Chinese Academy of Sciences, Hefei, China</i>	
10:20 - 10:50	Coffee break	
Session 12 FEL multiphoton		
	Chairperson: John Bozek	
10:50 - 11:20	Invited Talk Coherent control experiments with the fully coherent free electron laser FERMI Kevin Prince - Elettra, Trieste, Italy	
11:20 - 11:50	Invited Talk Hard X-ray photonics with intense X-ray laser pulses Hitoki Yoneda - University of Electro-Communications, Tokyo, Japan	
11:50 - 12:20	Invited Talk X-ray pump X-ray probe spectroscopy Antonio Picón - ANL, Argonne, USA	
12:20 - 12:40	Molecular femtodynamics at FERMI Maria Novella Piancastelli - LCPMR, CNRS & UPMC, Paris, France / Uppsala University, Sweden	
12:40 - 13:00	Control of H ₂ dissociative ionization in the non-linear regime using EUV femtosecond pulses @ FERMI Fabian Holzmeier – ISMO, Orsay / Synchrotron SOLEIL, Gif-sur-Yvette, France	