



## The 5th International Symposium on Intense Short Wavelength Processes in Atoms and Molecules (ISWAMP)

Paris, France, July 20-22, 2019

## **Programme**

## Saturday, July 20th

11:00 – 13:50	Welcome registration, coffee	
13:50 – 14:00	Opening	
	Chair: Kiyoshi Ueda	
14:00 – 14:40	Plenary talk Attosecond measurements with ultrafast X-rays: The present and future prospects  Jonathan Marangos - Imperial College, London, UK	
14:40 – 15:10	Invited talk Self-referenced attosecond streaking <b>Daniel Haynes</b> - Max-Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany	
15:10 – 15:30	Attosecond Pulse Shaping at FERMI FEL <b>Praveen Kumar Maroju</b> – Albert Ludwigs Universität, Freiburg, Germany	
15:30 – 16:00	Coffee break	
Chair: Igor Litvinyuk		
16:00 – 16:30	Invited talk Coherent X-ray diffraction nanoscale imaging with single attosecond-short FEL pulses Tais Gorkhover - Pulse Institute, SLAC, Menlo Park, USA	
16:30 – 17:00	Invited talk Crystalline defects in single Xe clusters probed by single-shot X-ray diffraction  *Akinobu Niozu - Kyoto University, Kyoto, Japan*	
17:00 – 17:30	Invited talk Measuring the atomic recoil to study stimulated X-ray emission in Ne Ulli Eichmann - Max-Born Institute, Berlin, Germany	
17:30 – 18:00	Invited talk Tracing fragmentation dynamics upon absorption of very intense X-ray pulses Rebecca Boll - European XFEL, Hamburg, Germany	



## Sunday, July 21<sup>st</sup>

15:30 – 16:00 Coffee break

	Chair: Robert Moshammer	
09:00 - 09:40	Plenary talk Attosecond soft-X-ray spectroscopy in the gas and liquid phases Hans Jakob Wörner - ETH Zürich, Zürich, Switzerland	
09:40 – 10:10	Invited talk Exotic dense-matter states pumped by ultra-Intense X-ray radiation of relativistic laser plasma Sergey Pikuz - Joint Institute for High Temperatures, Moscow, Russian Federation	
10:10 – 10:40	Coffee break	
Chair: Alexei Grum-Grzhimailo		
10:40 – 11:10	Invited talk Time-dependent wavefunction-based methods for intense laser-driven multielectron dynamics Takeshi Sato - University of Tokyo, Tokyo, Japan	
11:10 – 11:40	Invited talk Analytic description of high-order harmonic generation in the adiabatic limit  Mikhail V. Frolov - Voronezh State University, Voronezh, Russian Federation	
11:40 – 12:00	Attoclock on atomic and molecular hydrogen  Anatoli Kheifets - Australian National University, Canberra, Australia	
12:00 – 12:20	A semiclassical study of the holographic interference in atomic photoionization <b>Diego German Arbó</b> - Institute for Astronomy and Space Physics IAFE, Buenos Aires, Argentina	
12:20 – 14:00	Lunch	
	Chair: John Costello	
14:00 – 14:40	Plenary talk Attosecond Science: Past, Present and Future  Marc Vrakking - Max-Born Institute, Berlin, Germany	
14:40 – 15:10	Invited talk Strong-field physics in the molecular frame: imaging with short-wavelength electrons Jochen Küpper - DESY, CFEL and Universität Hamburg, Hamburg, Germany	
15:10 – 15:30	Autoionizing Rydberg states of H <sub>2</sub> molecules in strong laser field <b>Yonghao Mi</b> - Max-Planck Institute for Nuclear Physics, Heidelberg, Germany	





Chair: <b>Dajun Ding</b>		
16:00 – 16:30	Invited talk Circularly polarized X-rays via high order harmonics <b>André D. Bandrauk</b> – Université de Sherbrooke, Sherbrooke, Canada	
16:30 – 17:00	Invited talk Probing Rydberg-Rydberg interactions in $N_2$ by ultrafast EUV-NIR photoelectron spectroscopy <b>Akiyoshi Hishikawa</b> - Nagoya University, Nagoya, Japan	
17:00 – 17:30	Invited Talk Nonlinear emphasizing of electron spin polarization caused by two-pathway interference in VUV photoionization  Elena V. Gryzlova - Lomonosov Moscow State University, Moscow, Russian Federation	
17:30 – 19:00	Posters Session	
19:30 – 21:30	Conference dinner at La Coupole, 102 Boulevard du Montparnasse, 75014 Paris	
Monday, July 22 <sup>th</sup>		
	Chair: Carlo Callegari	
09:00 - 09:40	Plenary talk New science opportunities at the Small Quantum Systems (SQS) Instrument at the European XFEL  Michael Meyer - European XFEL, Schenefeld, Germany	
09:40 – 10:10	Invited talk The Maloja endstation for atomic, molecular and non-linear science at SwissFEL  Kirsten Schnorr - Paul Scherrer Institut, Villigen, Switzerland	
10:10 – 10:40	Coffee break	
Chair: Oksana Travnikova		
10:40 – 11:10	Invited talk Status and perspective of X-ray Free Electron Lasers in China <b>Zhentan Zhao</b> - Shanghai Advanced Research Institute, Chinese Academy of Sciences, Shanghai, China	

Peter Walter - LCLS, SLAC, Menlo Park, USA

optical science at LCLS-II

Invited talk

11:10 - 11:40

11:40 - 12:10

Invited talk

Echo enabled harmonic generation at the FERMI Free-Electron Laser

The TMO instrument: Opportunities and plans for time-resolved atomic, molecular and

Carlo Spezzani - Elettra Sincrotrone Trieste, Trieste, Italy



16:10 - 16:20

Conclusion



12:10 - 14:00	Lunch	
	Chair: Marc Simon	
14:00 – 14:30	Invited talk Time-resolved photoionization and fragmentation dynamics of fullerenes studied with FELs <b>Nora Berrah</b> - University of Connecticut, Storrs, USA	
14:30 – 14:50	Ultrafast buildup of magneto-electric excitations by polarization-structured laser pulses <b>Jamal Berakdar</b> - Martin-Luther University, Halle-Wittenberg, Halle, Germany	
14:50 – 15:20	Coffee break	
Chair: <b>John Bozek</b>		
15:20 – 15:50	Invited talk Complete reconstruction of bound and unbound electronic wavefunctions in two-photon double ionization  Paolo Antonio Carpeggiani - Technische Universität Wien, Wien, Austria	
15:50 – 16:10	Nonsequential two-photon ionization of inner-shell electrons in neutral atoms Andrey V. Volotka - Helmholtz-Institut Jena, Jena, Germany	