

12th Ringberg Meeting on Science with FELs

<u>Sunday, February 5th, 2023</u>		
> 15:00	Coffee, cake, Garden room	
Chair: Ilme Schlichting		
16:20	Ilme Schlichting	Welcome
16:30	Giuseppe Penco	Fully coherent FEL into the water window and beyond
17:00	Sven Reiche	Seeding Strategies for SwissFEL
17:30	Takaki Hatsui	Development of 17.4 kfps X-ray imaging detector CITIUS
18:00	Jerry Hastings	Is the FEL community committing suicide?
18:30	Dinner	
<u>Monday, February 6th, 2023</u>		
	Chair: Christoph Bostedt	
9:00	Praveen Maroju	Attosecond timing tool for attosecond time resolved two color photoionization experiments at a seeded FEL
9:30	Artem Rudenko	Time-resolved imaging of electronic and nuclear motion in photochemical reactions
10:00	Heide Ibrahim	Roaming and its potential relevance for XUV studies
10:30	Coffee break	
	Chair: Markus Guehr	
11:00	Rebecca Ingle	Molecular Spectroscopy with Soft X-rays
11:30	Thomas Wolf	Using ultrafast diffraction methods to study reaction mechanisms in photochemistry
12:00	Adi Natan	Super-Resolution in Ultrafast Scattering
12:30	Group photo (depending on weather)	
12:40	Lunch	

Chair: Daniel Rolles		
14:00	Oksana Plekan	Ultrafast photodynamics observed with core level photoemission
14:30	Antonio Picón	Electronic effects on time-resolved photoelectron spectroscopy
15:00	Thomas Pfeifer	Bright new perspectives for fundamental atomic physics and molecular science with FELs: Digital tuning of SASE pulses and high harmonics as a broad-band absorption probe after FEL pump
15:30	Coffee break	
Chair: Gianluca Geloni		
16:00	Manuel Guizar-Sicairos	Status of ptychographic imaging and outlook to the future
16:30	Konstantin Kharitonov	Single-shot ptychography at FELs: challenges and perspectives
17:00	Patrick Rauer	Cavity Based X-ray FELs - developments, insights and promises
	Rachel Margraf	Cavity-Based X-ray FELs: Developments, Insights and Promises
17:45	Tour of the castle	
18:45	Dinner	
	Chair: Andrea Eschenlohr	
20:00	Andrej Singer	Picosecond Volume Expansion following a metal-insulator transition in a nano-textured Mott Insulator
20:30	Beata Ziaja-Motyka	Modeling of ultrafast X-ray induced magnetization dynamics in magnetic materials
21:00	Beata/Jerry/Ilme	Discussion round

<u>Tuesday, February 7th, 2023</u>		
Chair: Diling Zhu		
9:00	Yanwen Sun	Towards building the ultimate observatory for atomic motions.
9:30	Daniela Rupp	Imaging coherent electron dynamics in nanoscale matter with tomorrow's XUV and X-ray sources
10:00	Changyong Song	Direct observation of ultrafast phase transitions in far out-of-equilibrium
10:30	<i>Coffee break</i>	
Chair: Camila Bacellar		
11:00	Elisa Biasin	Elucidating charge and proton transfer processes in complex environment with femtosecond x-rays
11:30	Benjamin van Kuiken	Investigating photochemical dynamics of transition metal complexes in solution with time-resolved RIXS spectroscopy
12:30	<i>Lunch</i>	
14:00	<i>Discussion rounds / Hiking</i>	
18:30	<i>Conference Dinner</i>	
	Chair: Tim van Driel	
20:30	Klaus Sokolowski-Tinten	Irreversible material dynamics studied with time-resolved X-ray scattering
<u>Wednesday, February 8th, 2023</u>		
Chair: Rebecca Boll		
9:00	Kiyofumi Takaba	Collaboration of photons and electrons: visualization of reacting quantum structures
9:30	Ashkan Salamat	Super-stoichiometric metal hydride chemistry and pathways to ambient conditions superconductivity.
10:00	Justine Schlappa	Probing ultrafast spin and orbital dynamics in quantum materials with time-resolved resonant inelastic x-ray scattering
10:30	Daniel Schick	Mixing laser- and X-ray-beams for probing the electronic structure of solids by non-linear spectroscopy