14th Ringberg Workshop on Science with FELs

Sunday, February 2nd, 2025		
> 15:00	*Coffee, biscuits, Garden room*	
Chair: Marc Guetg		
16:20	Ilme Schlichting	Welcome
16:30	Jennifer Morgan	FEL radiation with spatially varying polarisation
17:00	Carlo Spezzani	New challenges for FERMI: Echo-Enabled Harmonic Generation to push the wavelength limit in seeded FELs
17:30	Jiawei Yan	Toward high-power attosecond-Angstrom X-ray free-electron lasers
18:00	Akihiko Ikeda	X-ray diffraction above 100 T
18:30	*Dinner*	
Monday, February 3rd, 2025		
	Chair: Camila Bacellar	
9:00	Thomas Elsaesser	Electric charge dynamics in liquids and proteins probed by ultrafast terahertz methods
9:30	Adi Natan	Unveiling Solvent-Dependent Solvation in Real Space and Time
10:00	Kyung Hwan Kim	Direct Observation of a Dynamic Transition in Bulk Supercooled H_2O and D_2O
10:30	*Coffee break*	
	Chair: Diling Zhou	
11:00	Teguh Citra Asmara	Ultrafast Dynamics of Charge Transfer across Strongly-Correlated Oxide Interfaces
11:30	Haoyuan Li	Demonstration of Hard X-ray Transient Grating with Sub-10 nm Period with an Application to High-Wavevector Phonon Excitation
12:00	Ian Gabalski	Resolving single-electron motion using ultrafast hard X-ray scattering
12:30 12:40	*Group photo (depending on weather)* *Lunch*	

Chair: Benjamin Erk		
14:00	Thomas Baumann	Femtosecond lifetime determination of electronic dipole transitions in Ne^{8+} and Fe^{16+}
14:30	Uwe Bergmann	Going Forward – Advances in Stimulated X-ray emission at Angstrom Wavelengths
15:00	Oliviero Cannelli	Double-blind holography for single-shot SASE FEL reconstruction: challenges and promises
15:30	*Coffee break*	
Chair: Kirsten Schnorr		
16:00	Ichiro Inoue	Exploring hard X-ray nonlinear effects using attosecond pulses
16:30	Adrian Cavalieri	Table-top attosecond methodology at XFELs
17:00	Danilo Ferreira de Lima	Temporal diagnostics with QUACK
17:30	Jon Marangos	Attosecond impulsive x-ray Raman scattering
18:00	*Tour of the castle*	
18:45	*Dinner*	
	Chair: Daniela Rupp	
20:00	Marcus Dahlström	Control and detection of quantum entanglement mediated by time- dependent strong couplings from tailored FEL pulses

<u>Tuesday, February 4th, 2025</u>		
Chair: Camila Bacellar		
9:00	John Gaida	Ultrafast transmission electron microscopy down to the cycle of light
9:30	Rebeca Gómez Castillo	Investigation on electronic structure and reactivity in heterometallic proteins
10:00	Martin Appleby	Investigating the excited state dynamics of Cu-based complexes for use as antibacterial photosensitisers via time-resolved optical and X-ray spectroscopies
10:30	*Coffee break*	

Chair: Philippe Wernet		
11:00	Hosung Ki	Tracking atomic positions using time-resolved X-ray liquidography: Challenges and future directions
11:30	Kelly Gaffney	Chemical applications of ultrafast RIXS
12:00	Kristjan Kunnus	Opportunities of time-resolved RIXS for chemical dynamics
12:30	*Lunch*	
14:00	*Discussion rounds / Hiking*	
18:30	*Conference Dinner*	
	Chair: Mark Hunter	
20:30	Thomas Barends	Fatty acid photodecarboxylase
<u>Wednesday, February 5th, 2025</u>		
Chair: Rebecca Boll		
9:00	Zuzana Konopkova	Science with Diamond Anvil Cells at EuXFEL and experimental observation of cubic iron above 200 GPa
9:30	Silvia Pandolfi	Imaging shock-compressed matter at XFEL facilities
10:00	Adrian Descamps	Probing extreme states of matter using high-resolution inelastic X-ray scattering
10:30	Flavio Capotondi	Broadband surface phonon spectroscopy by time-domain extreme ultraviolet diffuse scattering
11:00 End of meeting, lunch packages if desired		