11th Ringberg Workshop on Science with XFELs
Hard X-ray FELs – 10 years in and ….

Sunday, February 9th, 2020		
> 15:00	*Arrival*	
	Chair: Robert Moshammer	
16:15	Ilme Schlichting	Welcome
16:30	Martin Beye	FLASH: from pioneering SASE FEL user operation to the FLASH2020+ project
17:00	Christian Svetina	Furka experimental station at Athos SwissFEL and recent results in X-ray Transient Grating Spectroscopy
17:30	Diling Zhu	Optics for generation and coherent manipulation of transform-limited hard x-ray pulses
18:00	Matthias Bauer	Understanding photocatalytic proton reduction with base metals using FELs
18:30	*Dinner*	
20:00	Informal get-together	
Monday, February 10th, 2020		
	Chair: Kirsten Schnorr	
9:00	Ishiro Inoue	Measurement and applications of nanofocused XFEL interaction with matter
9:30	Malcom McMahon	Probing The Behaviour of Matter under Extreme Conditions Using Ultrafast X-ray Diffraction
10:00	Peter Zalden	How a liquid-liquid phase transition, resolved by femtosecond X-ray diffraction enables fast and reliable data storage in phase-change memory
10:30	*Coffee break*	
	Chair: Kevin Prince	
11:00	Aaron Lindenberg	Transient structure determination in the hybrid perovskites

11:30	Emmanuelle Jal	Two-colors x-ray streaking to observer charge and spin dynamics in heterostructures
12:00	Claudio Masciovecchio	A perspective on FEL based wave mixing experiments
12:30 12:40	*Group photo (depending on weather)* *Lunch*	
Chair: Marco Cammerata		
14:00	Majed Chergui	Spin cross-over in biology
14:30	Elspeth Garman	Time resolved dose estimates for XFEL experiments: RADDOSE-XFEL
15:00	Philippe Wernet	XFELs for chemical and bio-inorganic spectroscopy: One way of addressing what we have learned
15:30	*Coffee break*	
Chair: Thomas Tschentscher		
16:00	Introduction to breakout sessions: Anders Nilsson Chemistry: Anders Nilsson AMO: Robert Moshammer Biology: Ilme Schlichting Complex Materials: Martin Beye - Separate breakout sessions: Red, Green, Blue Salon, lecture hall	
18:00	*Tour of the castle*	
18:45	*Dinner*	
20:00	Individual Discussions	

Tuesday, February 11th, 2020

Chair: José Crespo Lopez-Urrutia		
9:00	Tommaso Mazza	Non-linear electronic interaction of atoms with x-rays
9:30	Christina Boemer	X-ray parametric conversion processes: A systematic experimental approach

10:00	Dietrich Krebs	X-ray parametric conversion processes: Theoretical approach and challenges
10:30	*Coffee break*	
Chair: Sakura Pascarelli		
11:00	Uli Eichmann	Neutral metastable atom detection: a new route to study non linear X-ray photon processes
11:30	Markus Guehr	Time resolved x-ray spectroscopy of (thio)nucleobases
12:00	Adrian Mancuso	Update on Single Particle Imaging Development using High Repetition Rate XFELs
12:30	*Lunch*	
	Chair: Martin Weik	
14:00	Marius Schmidt	TR-SFX at XFELs
14:30	Isabel Moraes	XFEL studies on Archaerhodopsin 3
15:00	Radoslav Enchev	Time-resolved analysis by cryo-EM
15:30	*Coffee break*	
	Chair: Beata Ziaja-Motyka	
16:00	Anders Nilsson	X-ray Laser Studies of Water
16:30	Linda Young	Observing the birth and fate of free radicals in liquid water
17:00	**Discussions in breakout sessions** Chemistry: Anders Nilsson AMO: Robert Moshammer Biology: Ilme Schlichting Complex Materials: Martin Beye Red, Green, Blue Salon, lecture hall	
18:30	*Dinner*	
Individual Discussions		

Wednesday, February 12th, 2020		
Chair: Thomas Pfeiffer		
9:00	Lukas Bruder	Tracking electronic coherences in the XUV spectral range
9:30	Christian Ott	The nonlinear response of atomic transitions to intense XUV light
10:00	Clemens Weninger	Stimulated X-ray Emission Spectroscopy
10:30	*Coffee break*	
Chair: Kiyoshi Ueda		
11:30	Till Jahnke	Multi-particle coincidence measurements performed at the European XFEL
12:00	Tim van Driel	The new ePix10k megapixel x-ray area detector at LCLS
12:30	*Lunch*	
14:00	*Discussion rounds / Hiking*	
18:30	*Conference Dinner*	
	Chair: Joachim Ullrich	
20:30	**Feedback from breakout sessions**	
Thursday, February 13th, 2020		
Chair: Bruce Doak		
9:00	Emiliano Principi	Electron diffraction and XAS techniques pushed toward sub-ps time resolution at the FERMI FEL
9:30	Nathan Hohman	Unlocking Material Structure and Dynamics using FEL
10:00	Kirsten Schnorr	Maloja endstation for atomic, molecular and non-linear science at SwissFEL
10:30	Marie Gruenbein	On MHz data collection
11:15	End of meeting, lunch packages if desired	