

"International workshop on science at x-ray free electron lasers: Chemical physics and materials science in extreme x-rays light and extreme fields"

Date: Feb. 13-14, 2019

Place: International Center for Educational Research 2F Seminar Room, IMR, Tohoku University

Organizers: Hiroyuki Nojiri, Kaoru Yamazaki & Kiyoshi Ueda

Sponsors: GIMRT, PCoMS, NJRC, Five-star Alliance

Feb. 13

From	To	Type	No	Name	Affiliation	Title
Chair				Kiyoshi Ueda		
8:55	9:00			Hiroyuki Nojiri	Tohoku University	Welcome Address
9:00	10:00	Planary	P	Robin Santra	DESY & Universität Hamburg	Molecules at high x-ray intensity: Challenges for theory
10:00	10:30	Invited	I1	Akinobu Niozu	Kyoto University	Analysis of single-shot X-ray diffraction data from single nanoparticles
10:30	10:40					break
10:40	11:10	Invited	I2	Yoshiaki Kumagai	Argonne National Laboratory	Electronic response during a pressure-induced phase transition in nanocrystals
11:10	11:40	Invited	I3	Kaoru Yamazaki	Tohoku University	Capturing the structure and motion of nano-/bio-molecules by XFEL induced Coulomb explosion
11:40	13:30					Lunch break
Chair				Kaoru Yamazaki		
14:00	14:30	Invited	I4	Shinichi Adachi	KEK-PF	Visualizing Chemical Reactions in Solution with Ultrashort X-ray Pulses
14:30	15:00	Invited	I5	Tetsuo Katayama	SPring-8/SACLA	Tracking ultrafast chemical reaction with X-ray free electron laser
15:00	15:30	Invited	I6	Sinichro Iwai	Tohoku University	Ultrafast dynamics of correlated electrons driven by a single-cycle light field; From femtosecond to attosecond.
			I7	Kiyoshi Ueda	Tohoku University	Catching and controlling electronic dynamics with fully coherent EUVFEL
15:30	15:50					Tea break
Chair				Hiroyuki Nojiri		
15:50	16:20	Invited	I8	Jun Sik Lee	SLAC	Exploring ideal charge-density-wave in High-Tc superconductors
16:20	16:50	Invited	I9	Yasuhiro H. Matsuda	University of Tokyo	Phase transitions induced by megagauss fields-possible applications of XFEL
16:50	17:20	Invited	I10	Diling Zhu	SLAC	Challenges in probing subtle structural transitions with SASE x-ray free electron lasers
17:20	17:50	Invited	I11	Akihiko Ikeda	University of Tokyo	Unconventional magnetic states and spin-lattice coupling in ultrahigh magnetic fields
18:30	20:30	banquet		Speech and Toast by Kiyoshi Ueda		

Feb. 14

From	To	Type	No	Name	Affiliation	Title
Chair				Hiroyuki Nojiri		
9:00	9:30	Invited	I12	Jan Hoyoung	POSTECH	PAL-XFEL : Status and future plan
9:30	10:00	Invited	I13	Keisuke Hatada	Toyama University	Theoretical studies of molecules and solids with X-ray Free Electron Laser
10:00	10:30	Invited	I14	Yijin Liu	SLAC	Nanoscale spectro-microscopic study of material under extreme conditions
10:30	11:00	Invited	I15	Hiroyuki Nojiri	Tohoku University	Scattering experiments in high magnetic fields-past and next 10 years
11:00	11:10			Kaoru Yamazaki	Tohoku University	Closing address

Laboratory Tour (High field center and supercomputing center)

Afternoon: Discussions and group meetings