

SACLA Users' Meeting 2022

Overview

Makina Yabashi On behalf of SACLA March 2, 2022

SACLA Users' meeting 2022

- 10-year anniversary since its inauguration (March, 2012)
- Second "online" meeting
- > 170 registrations
- Special thanks to ...

Yoneda-sensei (Chair of SACLA UC) Yabuuchi-san, Tono-san, SACLA BL staff, and secretary office of RIKEN SPring-8 Center

SACLA & SPring-8: Recent situation and perspective

- Tohoku 3-GeV SR facility is under construction; will start operation in FY2023; accelerator team of SACLA/SPring-8 is leading the project
- SPring-8 is seeking an opportunity for upgrade to "SPring-8-II" in the mid 2020's; SACLA linac has been fully served as an injector for SPring-8 since FY2021
- Prior to SPring-8-II, we have started upgrade of beamlines of SP8
- SACLA should keep a leading position in world's science with XFEL
 - Continuation of steady, high-quality operation
 - Pursuit of strategic approaches (SACLA BD Program)
 - Enhancement of communication/collaboration among users & facility
- Increase of utility cost (e.g., electricity fee) could become a serious issue in next FY; details will be announced as soon as we get a clear outlook

Program Day 1

JST	GMT	PST			
9:00	0:00	16:00	Welcome Fac	ility session	
9:10	0:10	16:10		Overview	M. Yabashi (SACLA)
9:30	0:30	16:30	Facility Session	Facility Update	K. Tono (SACLA)
10:00	1:00	17:00		Discussion	
10:15	1:15	17:15	Break Scie	ence Topics	
10:30	1:30	17:30	Scientific Talks	Recent results of high energy density science at SACLA	N. Ozaki (Osaka Univ.)
11:00	2:00	18:00	Scientific Tarks	Nonlinear X-ray spectroscopy for material science	I. Matsuda (Univ. Tokyo)
11:30	2:30	18:30	Break Bre	akout sessions A	
				Parallel Sessions	
15:00	6:00	:00 22:00		A1. Ingi-resolution and ingi-	Advanced SFX naterials scien
				A2: New perspectives using the coupling between high-power nanosecond laser and XFEL at SACLA	ligh-power ns
17:00	8:00	0:00	Break		

Program Day 2 AM

JST	GMT	PST	SBD Program 1			
9:00	0:00	16:00		Time Resolved Resonant Inelastic X-Ray Scattering Beyond Iridium	M. Dean (BNL)	
9:15	0:15	16:15	SACLA Basic Development Program 2021	X-ray experiment in pulsed ultrahigh magnetic field beyond 100 T with a portable single turn coil system "PINK"	A. Ikeda (UEC)	
9:30	0:30	16:30		Development of sub-10 nm XFEL focusing system based on novel imaging mirror optics	S. Matsuyama (Nagoya Univ.)	
9:45	0:45	16:45	Breakout sessions B			
			Died	Parallel Sessions:		
10:00	1:00	17:00	Breakout Sessions B	B1: Recent achievements and future perspectives in materials science at SACLA	Materials scien	ce
				B2: Nanofocusing XFEL: 100 nm- and 10 nm-focusing capabilities at SACLA	Nano-focusing a applications	an

Program Day 2 PM

13:30	4:30	20:30	Science with Special Session	X-rays in 2050s (in Science with X-rays in the 2050s (Language: Japanese)	Japanese)
15:30	6:30	22:30	Break		
15:45	6:45	22:45	SBI	D Program 2 Measurement systems for biomolecular movies using X-ray free electron lasers	S. Iwata (Kyoto Univ.)
16:00	7:00	23:00	SACLA Basic Development Program 2021	Development of multispectral imaging system by aperture division of rotational soft X-ray mirror	S. Egawa (RIKEN)
16:15	7:15	23:15		Development of a wide-dynamic- range and high-frame-rate CMOS image sensor for soft X-ray II	J. Miyawaki (QST)
16:30	7:30	23:30	Summary and Closing Sur	mmary & Closing	
17:00	8:00	0:00			6

Satellite meeting

"Science with X-rays in the 2050s (in Japanese)"

Brainstorming discussion with young researchers: Frontier of X-ray sources and sciences in 2050s

プログラム

13:30	はじめに	米田仁紀(電気通信大)	H. Yoneda
13:40	30年後の光源について Light sources in 2	2050s 大坂泰斗(SACLA)	T. Osaka (SACLA)
13:50	私が想像する30年後の〇〇	藤原孝彰(東北大学)	T. Fujiwara (Tohoku U)
	Science in 2050	堀尾眞史(東京大学) S	M. Horio (Tohoku U)
		池田暁彦(電気通信大)	A. Ikeda (UEC)
		道根百合奈(電気通信大)Y. Michine (UEC)
		稲田聡明(東京大学)	S. Inada (U Tokyo)
15:15	議論		

Enjoy the Meeting !!