19th	Category	Chair	Speaker	Presentation title
13:30				
13:45			K. Tanaka	Implementation of Extreme Light Infrastructure-Nuclear Physics
14:00		R. Kodama		
14:15	ALPS, HEDS & XOPT	Osaka University	M. Campbell	High peak and average power laser research at the Laboratory for Laser Energetics
14:30	Joint Session (I)	H. Yoneda		
14:45		Univ. Electro-Comm.	P. B. Corkum	Linking high harmonics from solids and gases
15:00				
15:15			J. Zou	Recent Advances of the Apollon 10 PW Laser
15:30			Break	
15:45				
16:00			C. G. Schroer	Perfect X-ray focusing via fitting corrective glasses to aberrated optics
16:15	ALPS, HEDS & XOPT	M. Yabashi		
16:30	Joint Session (II)	RIKEN SPring-8 Center	S. Asai	Probe into vacuum filed using high intensity X-ray
16:45				

20th	Category	Chair	Speaker	Presentation title
8:55	Opening		K. Yamauchi	Opening remarks
9:00				
9:15			A. Menzel	Optics for Lensless X-Ray Microscopy
9:30	Imaging, microscopy,	H. Mimura		
9:45	& Ptychography (I)	The University of Tokyo	Y. Takahashi	High-resolution hard X-ray spectro-ptychography
10:00				
10:15			A. Momose	Recent Developments in X-ray Phase Imaging and X-ray Phase Tomography
10:30			Break	
10:45				
11:00			S. Berujon	Progress in X-ray phase contrast imaging based on random modulation
11:15	Imaging, microscopy,	Y. Takahashi	R. Ueda	Simultaneous Image Reconstruction of Attenuation, Scatter and Phase Using the Compressed Sensing in Sparse-View Phase CT
11:30	& Ptychography (II)	Osaka University	S. Matsuyama	Achromatic and High-Resolution Full-Field X-ray Microscope and its Applications
11:45			T. Sakao	Development of precision sub-arcsecond-resolution Wolter mirrors for future X-ray observations of the Sun
12:00			Lunch	
12:15				
12:30				
12:45				
13:00				
13:15				
13:30			A. Snigirev	X-ray in-line interferometers based on refractive optics
13:45				
14:00	Optical components	H. Yumoto	Y. Takeo	Development of soft x-ray focusing system with ellipsoidal mirror
14:15	& systems (I)	JASRI	W. Yun	Advances in Axially Symmetric Microfocus and Nanofocus Xrays
14:30			D. Shu	Design and Test of a Miniature Dynamic Mirror Bender with Laminar Flexure Bending Machanism for X-ray Microfocusing
14:45			V. Yashchuk	The ALS ex situ metrology for x-ray optics: current capabilities, new challenges, and tasks for further developments
15:00			Break	
15:15				
15:30			A. Baron	Optics and Optical Issues for IXS
15:45				
16:00			H. Yavas	Inelastic x-ray scattering and new frontiers in x-ray optics
16:15				
16:30	Inelastic Scattering &	M. Yabashi	T. Gog	Flat-Crystal Optics for Ultra-High Energy-Resolution Resonant Inelastic X-ray Scattering
16:45	Spectroscopy	RIKEN SPring-8 Center		
17:00			Y. Shvyd'ko	X-ray Echo Spectroscopy
17:15			A. Erko	2-Dimensional VLS Gratings for X-ray Spectroscopy and Monochromators with Femtosecond Time Resolution
17:30				
17:45			Q. Yi	An improved multi-channel multilayer-mirrors-based EUV/soft X-ray spectrometer developed for the dynamic hohlraum experiment

21st	Category	Chair	Speaker	Presentation title
8:45				
9:00			T. Sato	Recent progress and development in hard X-ray instrumentation and applications at LCLS
9:15	XFEL facilities	Y. Feng		
9:30		SLAC National Accelerator	Y. Inubushi	Current status and future perspectives of SACLA
9:45		Laboratory		
10:00			H. Sinn	Status of the European XFEL
10:15	Optical components & systems (II)		T. Hirano	Hard X-ray Split-and-Delay Optics with wavefront Division at SACLA
10:30			Break	
10:45				
11:00			I. Inoue	Determination of XFEL pulse duration via X-ray intensity interferometry
11:15	Photon diagnostics &	Y. Inubushi	I. Snigireva	Tunable Young' s double pinhole system coupled with lens for hard X-ray spatial coherence characterization.
11:30	new techniques	JASRI	S. Vadilonga	Single bunch extraction by SAW driven bunch chopper
11:45			A. Suzuki	New design of environmental cells as a first step toward 3D imaging in solution by X-ray laser diffraction
12:00			Lunch	
12:15				
12:30				
12:45				
13:00			Poster	
13:15				
13:30				
13:45				
14:00				
14:15				
14:30			Break	
14:45				
15:00	Optical components	C. Schroer	C. David	Diffractive X-ray Optics: Opportunities for Photon Science at Large Scale Facilities
15:15	& systems (III)	DESY/University of Hamburg	C. Morawe	Multilayer based monochromators for upgraded ESRF beamlines
15:30			M. Lebugle	X-ray Kinoform Beamsplitters
15:45			M. Yabashi	Development of X-ray optics for DLSRs
16:00			Break	
16:15			K. Sawhney	Future directions in X-ray Optics at Diamond
16:30				
16:45	Optical components	H. Sinn	Y. Feng	Variable Resolving Power Soft X-ray Self-Seeding Optical Design
17:00	& systems (IV)	European XFEL	C. Hardin	Overcoming the Limits of Mirror Performance at LCLS
17:15			D. Morton	KB Mirror Design for the LCLS-II SXR Beam Line
17:30			T. Kolodziej	Studies of diamond endurance to irradiation with x-ray beams of multi kW/mm^2 power densities for XFELO application
17:45	Closing		T. Ishikawa	Closing remarks