## Coherence Workshop Program (tentative)

2012/6/12

17th June 17:00 - 19:00 Registration

18th June

7:30 - 8:15 **Registration** 

8:30 - 9:55 Opening & Plenary

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8:30	8:35	Opening address	T. Ishikawa	RIKEN	
8:35	8:55	In memoriam of David Sayre	J. Miao	UCLA	
8:55	9:15	Single-particle XFEL imaging: recent success and future goals	A. Martin	Melbourne Univ.	
9:15	9:35	X-ray holography: beyond encoding a single picture	S. Eisebitt	TU Berlin	
9:35	9:55	Ptychographic reconstructions of mixed states	A. Menzel	PSI	

9:55 - 10:30 Coffee break

10:30 - 12:10 XFEL Topics

10:30		, -g	M. Nakasako	Keio Univ.
		lasers	A. Singer	DESY
11:10	11:30	Limitations of coherent diffractive imaging of single objects due to their damage by intense X-ray radiation	Z. Jurek	DESY
11:30	11:50	Cryptotomography with X-ray free electron lasers	N.D. Loh	SLAC
11:50	12:10	Biological structure determination using free electron lasers	A. Barty	DESY

12:10 - 13:30 Lunch

13:30 - 15:30 Ptychography (1)

10.00	10.00	1 cyonography (1)		
13:30	13:50	Holo-ptychography: simultaneous phase retrieval and wavefront reconstruction for inline holography	M. Stockmar	TU München
13:50	14:10	Applications of X-ray Bragg ptychography	P. Fuoss	ANL
14:10	14:30	High-resolution X-ray ptychography using focused hard X-ray beam	Y. Takahashi	Osaka Univ.
14:30	14:00	Three-dimensional high-resolution quantitative microscopy of extended crystals	P. Godard	CNRS
14:50	15:10	Three-dimensional microscopy of shape, density and strain in a nano- structured crystal using Bragg ptychography: methodological aspects	V. Chamard	CNRS
15:10		Hard X-ray imaging of bacterial cells: ptychographic reconstructions in 3D	R.N. Wilke	University of Göttingen

15:30 - 16:00 Coffee break

16:00 - 17:40 Ptychography (2)

10.00	17.10	r cyonography (2)		
16:00	16:20	Translation position correction in ptychography	F. Zhang	University College London
16:20	16:40	Possibilities and limits of ptychography applied to biological tissues	F. Berenguer	Synchrotron Soleil
16:40	17:00	Pink beam ptychography	B. Enders	TU München
17:00	17:20	Ptychographic reconstructions using shared data sets	I. Zanette	TU München
17:20	17:40	Ptychographic electron diffraction imaging at atomic resolution	C. Putkunz	Melbourne Univ.

19th June Workshop Tour
Outdoor Discussion

## 20th June

8:30 - 9:50 X-ray Photon Correlation Spectroscopy and X-ray Cross Correlation Analysis (1)

8:30	8:50	X-ray cross-correlation analysis applied to disordered two-dimensional systems	I.A. Vartaniants	DESY
8:50	9:10	High contrast X-ray speckle from atomic-scale order in liquids and glasses	S.O. Hruszkewycz	ANL
9:10	9:30	Multi-speckle XPCS as a probe of heterogeneous and anisotropic dynamics	A. Madsen	European XFEL
9:30	0.50	Detecting local order beyond the structure factor in hard sphere glasses	F. Lehmkühler	DESY

9:50 - 10:20 *Coffee break* 

10:20 - 11:40 X-ray Photon Correlation Spectroscopy and X-ray Cross Correlation Analysis (2)

10:20	10:40	Statics and dynamics of charged colloidal systems	F. Westermeier	DESY
10:40	11:00	photon correlation spectroscopy	Y. Shinohara	Tokyo Univ.
11:00	11:20	Cross-correlation based 2D structure determination from multi-particle scattering images	B. Pedrini	PSI
11:20	11:40	Ab initio imaging from correlated fluctuations in X-ray scattering	R. Kirian	DESY

11:40 - 13:10 *Lunch* 

13:10 - 15:10 3D Coherent X-ray Imaging

10.10		ob Concrete X ray imaging		
13:10	13:30	Structural principles of nanoparticles investigated by coherent X-ray diffraction	I. Robinson	University College London
13:30		Three-dimensional diffraction imaging with partial coherence	J.N. Clark	University College London
13:50		ICONERENT X-ray diffraction	R. Dronyak	DESY
14:10	14:30	Applications of three-dimensional coherent X-ray diffraction microscopy in biomaterials	H. Jiang	Shandong Univ.
14:30	14:50	Hard X-ray imaging and tomography of cells and tissues	M. Bartels	University of Göttingen
14:50	15:10	Reconstruction of viruses from XFEL diffraction patterns	D.K. Saldin	Wisconsin Univ.

15:10 - 15:40 *Coffee break* 

15:40 - 17:40 Coherent Diffractive Imaging (1)

			O.M. Yefanov	DESY
16:00	16:20	Selective coherent X-ray diffractive imaging of strains in compound nanostructure systems	A.A. Minkevich	КІТ
16:20	16:40	Imaging clusters and aggregates of nanoparticles	L. Shemilt	University College London
			V.L.R. Jacques	ESRF
		Crystal	Y. Kohmura	RIKEN
17:20	17:40	Coherent X-ray diffraction imaging of weak phase objects with the aid of reference signals	D.Y. Noh	GIST

## 21st June

8:30 - 10:10 Coherent Diffractive Imaging (2)

8:30	8:50	for X-ray diffraction microscopy	T. Kimura	Hokkaido Univ.
8:50		hard X-ray	S. Kim	RIKEN
9:10	9:30	Impact of electronic damage on single-particle coherent diffraction imaging experiments	U. Lorenz	DESY
9:30		, ,	J.J. Turner	SLAC
9:50	10:10	Noise-model dependent iterative algorithms for coherent diffractive imaging with low counting rate	M. Allain	Aix-Marseille Univ.

10:10 - 10:30 Coffee break

10:30 - 11:50 Coherent Diffractive Imaging (3)

10:30	10:50	Pinning and depinning process of an incommensurate charge density wave as revealed by coherent X-ray diffraction	D. Le Bolloc'h	CNRS
10:50	11:10	Time-resolved coherent X-ray diffraction imaging of ultra-fast strain dynamics at the nanoscale	M.C. Newton	Hokkaido Univ.
11:10	11:30	Coherent X-ray scattering to study nanostructure and dynamics	H. Kim	Sogang Univ.
11:30	11:50	Quantitative visualization of sample thickness and p-n junction using electron diffractive imaging	J. Yamasaki	Nagoya Univ.

11:50 - 13:10 Lunch

13:10 - 14:50 Instrumentation

10.10	17.00	anstrumentation		
13:10	13:30	X-ray photon correlation spectroscopy: from storage rings to X-ray free electron lasers	A. Robert	SLAC
13:30	13:50	P10 holography endstation of PETRA Ⅲ-Propagation based phase contrast X-ray imaging of Caenorhabditis elegans	M. Bartels	University of Göttingen
13:50	14:10	Hard X-ray diffraction imaging of cells and organelles at SPring-8	C. Song	RIKEN
14:10	14:30	Recent developments for coherent X-ray diffraction imaging at the ESRF	Y. Chushkin	ESRF
14:30	14:50	The hard X-ray delay line at the XCS instrument at LCLS	G. Grübel	DESY

14:50 - 15:15 *Coffee break* 

15:15 - 16:20 SACLA Session (1): Facility

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15:15	15:20	Introduction	T. Ishikawa	RIKEN
15:20	15:35	Light source in SACLA Session (1): Facility	H. Tanaka	RIKEN
			M. Yabashi	RIKEN
15:50	16:05	End stations of SACLA : Experimental instruments and photon diagnostic systems	K. Tono	JASRI
16:05	16:20	Detector and data acquisition system for SACLA	T. Hatsui	RIKEN

16:20 - 16:30 Short break

16:30 - 17:30 SACLA Session (2): Application & Closing

16:30		· · · · · · · · · · · · · · · · · · ·	K. Yamauchi	Osaka Univ.
16:50	17:10	Possible solution to the experimental observation of fast relaxation in amorphous materials	E. Matsubara	Kyoto Univ.
17:10	17:30	SACLA future plan: application for biology	S. Iwata	Kyoto Univ.
17:30		Closing remark	K. Nugent	Melbourne Univ.

## Poster Session

24 papers (as of June 12)