

5. Diffraction Limited Storage Ring (DLSR) Workshop

DESY, March 9-11, 2016

Programme

Tuesday, 8 March 2016

CFEL (Bldg. 99), ground floor

17:00 – 19:00 *Reception & registration*

Wednesday, 9 March 2016

DESY Auditorium (Bldg. 05)

Keynote Session

8:30 – 9:00 *Registration*

9:00 – 9:15 Welcome

Helmut Dosch (DESY)

9:15 – 9:30 Workshop goals

Edgar Weckert (DESY)

9:30 – 10:30 Science opportunities at DLSRs

Harald Reichert (ESRF)

10:30 – 11:00 *Coffee*

11:00 – 12:00 DLSR machine physics

Mikael Eriksson (MAX-lab)

12:00 – 13:00 *Lunch*

Facility updates and plans

13:00 – 13:25 MAX IV

Pedro Tavares (MAX-lab)

13:25 – 13:50 Status/progress of the ESRF/EBS

Pantaleo Raimondi (ESRF)

13:50 – 14:15 APS-U project overview, machine design status

Glenn Decker (APS)

14:15 – 14:40 SPring-8-II status & strategy

Tetsuya Ishikawa (SPring-8)

14:40 – 15:10 *Coffee & posters*

15:10 – 15:35 Elettra2.0-The DLSR successor of Elettra

Emanuel Karantzoulis (Elettra)

15:35 – 16:00 Status and Science Plans for SLS 2

Phil Willmott / Frithjof Nolting (PSI)

16:00 – 16:25 SOLEIL upgrade plans

Amor Nadji (SOLEIL)

16:25 – 16:55 *Coffee & posters*

16:55 – 17:20 PETRA IV

Christian Schroer (DESY)

17:20 – 17:45 A potential MBA upgrade of the Advanced Light Source

Roger Falcone (ALS)

17:45 – 18:10 DIAMOND upgrade

Riccardo Bartolini (DIAMOND)

18:10 – 18:35 SIRIUS

Harry Westfahl (LNLS)

18:35 *Discussion and end of session*

20:00 *Dinner at DESY canteen*

Thursday, 10 March 2016

DESY Auditorium (Bldg. 05)

Science opportunities at DLSR sources

9:00 – 9:20	Science case and strategy for beamline design at SPring-8-II	Makina Yabashi / Kenji Tamasaku (SPring-8)
9:20 – 9:40	Science opportunities at DLSR synchrotron Elettra2.0	Luca Gregoratti (Elettra)
9:40 – 10:00	Bridging the gap from coherent imaging to atomistic understanding	Ross Harder (APS)
10:00 – 10:20	Ptychographic imaging	Ana Diaz (PSI)
10:20 – 10:50	<i>Coffee & posters</i>	
10:50 – 11:10	X-ray fluorescence microscopy and ptychography: Towards the ultimate microscope	Stefan Vogt (APS)
11:10 – 11:30	Surface Coherent Diffraction Imaging	Zhang Jiang (APS)
11:30 – 11:50	RIXS	Thorsten Schmitt (PSI)
11:50 – 12:10	Probing the dynamical origins of friction	Ralf Roehlsberger (DESY)
12:10 – 13:10	<i>Lunch</i>	
13:10 – 13:30	Macromolecular Crystallography	Meitian Wang (PSI)
13:30 – 13:50	Synchrotron Serial Crystallography (SSX)	Max Nanao (ESRF)
13:50 – 14:10	Chemistry in operando	Andreas Stierle (DESY)
14:10 – 14:30	High-pressure science	Hanns-Peter Liermann (DESY)
14:30 – 14:50	Exploitation of coherence at the ultra low angle range	Theyencheri Narayanan (ESRF)
14:50 – 15:10	XPCS	Michael Sprung (DESY)
15:10 – 15:30	Discussion and end of session	
15:30 – 16:00	<i>Coffee & posters</i>	

Challenges in DLSR machine physics

16:00 – 16:30	Design of the SIRIUS accelerator optics	Liu Lin (SIRIUS)
16:30 – 17:00	Overview of APS-U Machine Physics	Vadim Sajaev (APS)
17:00 – 17:30	SLS 2 – Upgrade of the Swiss Light Source	Andreas Streun (PSI)
17:30 – 18:00	<i>Coffee & posters</i>	
18:00 – 18:30	SPring-8-II storage ring development	Hitoshi Tanaka / Takahiro Watanabe (SPring-8)
18:30 – 19:00	Bending magnet sources on DLSR	Joel Chavanne (ESRF)
19:00	<i>End of session</i>	
19:30	<i>Bus leaving to the restaurant</i>	
20:00	<i>Conference dinner (Sagebiels Faehrhaus)</i>	
23:00	<i>Transfer back to DESY</i>	

Friday, 11 March 2016

DESY Auditorium (Bldg. 05)

Beamlines, challenges in X-ray optics and instrumentation

9:00 – 9:20	APS-U beamline planning overview	Jonathan Lang (APS)
9:20 – 9:40	Joint Technology Research Center SOLEIL-MAXIV: NANOPROBE	Stefan Kubsky (SOLEIL)
9:40 – 10:00	Optics, detectors, and instrumentation engineering at the APS	Patricia Fernandez (APS)
10:00 – 10:20	Nanopositioning and facility environmental issues	Curt Preissner (APS)
10:20 – 10:40	<i>Coffee & posters</i>	
10:40 – 11:10	An X-Ray Imaging Detector for SPring-8-II	Takaki Hatsui (SPring-8)
11:10 – 11:30	Near-field speckle for X-ray wavefront and coherence characterization	Sébastien Bérubon (ESRF)
11:30 – 11:50	Status of the CdTe pixel detector project	Marie Ruat (ESRF)
11:50 – 12:10	Data analysis strategy / PanDAAS approach	Andy Goetz (ESRF)
12:10 – 12:40	<i>Closeout of workshop</i>	
13:00	<i>Lunch</i>	
14:00	PETRA III tour (optional)	