

The 4th International Workshop on FEL Science : Science Challenges of XFEL

Place: Peppers Beach Club and Spa, Palm Cove, Cairns, Queensland, Australia

Date: 2011, August 29 - September 2

August 29 (Monday)

14:30 15:00 Check-in and Registration

Introduction & Facility Overviews (chair: R. Garret)

15:00 15:20 T. Ishikawa

15:20 15:40 K. Nugent

15:40 16:00 A. Paterson

16:00 16:20 D.- Y.Noh Coherent diffraction imaging using laser based soft x-ray sources

16:20 16:40 W. K. Lau Femtosecond Laser Slicing Facility for Time-resolved Research at TPS

16:40 17:00 R. Tai X-ray FELs Studies at SINAP

17:00 19:00 Discussion

19:00 21:00 Welcome reception

August 30 (Tuesday)

Session I: Accelerators (chair: S. Goto)

9:00 9:20 G. Le Blanc Accelerator Development Project Plans at the Australian Synchrotron Light Source

9:20 9:40 E. Meier Neural Network - based systems for real - time optimizations and control

9:40 10:00 D. Zhu Intense X-ray and Gamma-ray emission from two oppositely directed electrons interaction within an undulator magnetic field

10:00 10:20 H. Tomizawa The accelerator of SACLA

10:20 11:00 Coffee break

11:00 11:20 H. Kitamura Undulators for Compact SR/XFEL Facilities

11:20 11:40 Y.-C. Huang Bunching-frequency multiplication for fast-pulse-train photoinjector

11:40 12:00 J. Chen Commissioning progress of SDUV-FEL

12:00 13:30 Lunch

Session II: Molecular Imaging I (chair: Y. Joti)

13:30 13:50 TBD

13:50 14:10 H. M. Quiney Accommodating electronic damage in the determination of biomolecular structures using femtosecond X-ray free-electron laser sources

14:10 14:30 C. Song Diffraction microscopy in molecular imaging

14:30 14:50 M. Nakasako Coherent X-ray diffraction microscopy of non-crystalline biological particles at cryogenic temperatures

14:50 15:10 K. Yonekura Sample Preparation for Correlative Imaging with Cryo-EM and CXDM

15:10 15:40 Coffee break

Collaborative Discussion (chair: K. Nugent)

15:40 16:50 Summary of Discussion

17:00 19:00 Poster presentations & discussion

17:30 19:00 Directors Meeting

19:00 21:00 Dinner

August 31 (Wednesday)

7:30 14:00 Excursion (Great Barrier Reef)

Session III: Molecular imaging II (chair: C. Song)

14:20	14:40	A. Peele	The Experimental Methods Program at CXS
14:40	15:00	Y. Nishino	Toward Coherent Imaging Using XFEL
15:00	15:20	J. Je	Phase Contrast X-ray Imaging in BL29XU
15:20	15:40	G. van Riessen	Development of coherent diffractive imaging
15:40	16:00	Y. Kohmura	Gigantic Translation Effect occurring at the crystal interfaces
16:00	16:20	N. Kunishima	Biological specimens for diffractive imaging experiments using XFEL in early days
16:20	16:40	Y. Takahashi	Development and Application of High-Resolution Coherent Diffraction Microscopy using Focused Hard X-ray Beam
17:00	19:00		Poster presentations & discussion
19:00	21:00		Dinner

September 1 (Thursday)

Session IV: Data Analysis/Theory (chair: T. Hatsui)

9:00	9:20	R. A. Dilanian	Challenges of Protein Nanocrystallography
9:20	9:40	Y. Joti	Simulation Study to Examine the Possibility of High-resolution Biomolecular Imaging with SACLA
9:40	10:00	K. Sawada	Berry-phase effects on x-ray dynamical scattering
10:00	10:20	K. Nugent	Experimental Methods in Coherent Diffractive Imaging
10:20	10:40	N. M. Davidson	DIXE: Software for Coherent X-ray Diffractive Imaging
10:40	11:10		Coffee break

Session V: Dynamics (chair: D.-Y. Noh)

11:10	11:30	J. A. Davis	Multidimensional Femtosecond Spectroscopy
11:30	11:50	Y.-Y. Lee	Dissociation Dynamics of Highly Excited Molecules
11:50	12:10	A. Torrance	Probing medium range order using coherent x-ray ptychography
12:10	13:30		Lunch

Session VI: Instrumentation & Closing (chair: M. Nakasako)

13:30	13:50	M. Yabashi	Next Challenges of SACLA
13:50	14:10	T. Hatsui	Detector and Data Acquisition System for SACLA
14:10	14:30	K. Yamauchi	Mirror-based optical systems for nanofocusing and nanoimaging of hard x-rays
14:30	14:50	K. Tono	Beamline and Experimental Station of SACLA
14:50	15:10	T. Sato	Ultrafast pump and probe experiment apparatus of SACLA
15:10	15:40		Coffee break
15:40	16:00	S. Goto	(closing)
16:00	18:30		Poster presentations & discussion
18:45	20:45		Farewell Dinner

September 2 (Friday)

~ 11:00 Check-out