

5. 研究会・国際会議等

2015年度に理研が主催した、SACLAに関連した研究会・国際会議について紹介する。

1. The 2nd SACLA Workshop on Structural Biology with FELs (2016年2月2日)

XFELによって蛋白質の動的構造を捉える時分割実験を中心に、位相決定や分子イメージング等の分野を含め、SACLAやLCLSでの最新の研究成果を共有し、議論することを目的として、標題のシンポジウムを開催した。

プログラム：

February 2 (Tuesday)

11:05 - 11:10 Opening & Welcome
So Iwata (RIKEN/ Kyoto University)

Chair: So Iwata

11:10 - 12:30 Talk & Discussion
Tobias Weinert (Paul Scherrer Institute)
Native SAD phasing
Thomas Gruhl / Wenting Wu (Paul Scherrer Institute)

Towards structural dynamics of the GPCR rhodopsin

Minoru Kubo (RIKEN)
Time-resolved SFX at SACLA and its application to bacteriorhodopsin photocycle

Takanori Nakane (The University of Tokyo)

Realtime data processing pipeline for SFX at SACLA and its application to time-resolved studies of bacteriorhodopsin

12:30 - 13:30 Lunch

13:30 - 14:10 Talk & Discussion
Eriko Nango (RIKEN)
Light-activated intermediate structures of bacteriorhodopsin determined by time-resolved SFX

Daewoong Nam (Pohang University of Science & Technology)

Fixed target single-shot imaging at SACLA

14:10 - 14:45 Talk & Discussion
Richard Neutze (University of Gothenburg)
Visualizing ultrafast structural changes in photosynthetic reaction centers with XFEL radiation

14:45 - 15:00 Coffee break

15:00 - 15:45 Talk & Discussion
Ilme Schlichting (Max-Planck Institute for Medical Research)

Time-resolved SFX on myoglobin & Perspectives

15:45 - 15:50 Closing remarks
So Iwata (RIKEN/ Kyoto University)

2. International Forum on Detectors for Photon Science (2016年2月28日～3月2日)

XFEL及び蓄積リングにおける、シンクロトロン放射光の応用のため、検出器の将来性に関する議論と考察の機会を設けることを目的とし、標題のワークショップを実施した。

プログラム：

February 28 (Sunday)

Opening session chair: Gabriella Carini
17:00 - 17:10 Welcome Address (Takaki Hatsui, RIKEN Japan)

17:10 - 17:30 Motivation of IFDEPS
(Pablo Fajardo, ESRF, France on behalf of the Organizing Committee)

17:30 - 18:10 Yoshinori Nishino (Hokkaido University, Japan)

February 29 (Monday)

Highlight Technology Topic Session: Overview of CMOS Image Sensors chair: Pablo Fajardo
9:00 - 9:25 Nobukazu Teranishi (U. Hyogo&RIKEN, Japan)

Highlight Technology Topic Session: CMOS Image Sensor in Industry chair: Pablo Fajardo
9:25 - 9:55 Hidekazu Takahashi, Kazuhiro Morimoto (Canon Inc, Japan)

9:55 - 10:05 discussion

10:05 - 10:30 (Coffee break)
 Highlight Technology Topic Session: High Dynamic Range
 CMOS Image Sensors chair: Nobukazu Teranishi

10:30 - 11:00 Renato Turchetta (STFC Rutherford
 Appleton Laboratory, UK)

11:00 - 11:30 Rihito Kuroda (Tohoku University, Japan)

11:30 - 12:00 Shoji Kawahito (Shizuoka University,
 Japan)

12:00 - 12:10 discussion

Highlight Technology Topic Session: CMOS Image Sensor for
 extended wavelength chair: Takaki Hatsui

14:10 - 14:40 Paul Jerram (e2v, Ltd, UK)

14:40 - 15:10 Peter Denes (Lawrence Berkeley National
 Laboratory, USA)

15:10 - 15:40 Stephan Lauxtermann (Sensor Creations)

15:40 - 16:10 Konstantin Stefanov (The Open University,
 UK)

16:10 - 16:20 discussion

March 1 (Tuesday)

New detection challenges in photon science applications: High
 Photon Energy X-rays chair: Nino Miceli

8:30 - 9:00 Thierry Martin (ESRF, France)

9:00 - 9:30 David Pennicard (DESY, Germany)

9:30 - 9:40 discussion

9:40 - 10:05 (break)

New detection challenges in photon science applications: High
 Dynamic Range Detection chair: Heinz Graafsma

10:05 - 10:35 Bernd Schmitt (Paul Scherrer Institute,
 Switzerland)

10:35 - 11:05 Matteo Porro (European XFEL, Germany)

11:05 - 11:35 Mark Tate (Cornell University, USA)

11:35 - 12:05 Farah Fahim (Fermilab, USA)

12:05 - 12:15 discussion

New detection challenges in photon science applications: High
 Sensitivity High Spatial Resolution chair: Peter Denes

14:00 - 14:30 Pawel Grybos (AGH University of Science
 and Technology, Poland)

14:30 - 15:00 Anna Bergamaschi (Paul Scherrer Institute,
 Switzerland)

15:00 - 15:30 Andrew Holland (The Open University,
 UK)

15:30 - 15:40 discussion

15:40 - 16:15 (break)

Novel concepts toward future detectors: Sparse Readout
 Detectors chair: Bernd Schmitt

16:15 - 16:45 Peter Siddons (Brookhaven National
 Laboratory, USA)

16:45 - 17:15 Nicola Tartoni (Diamond Light Source,
 UK)

17:15 - 17:45 Takeshi Go Tsuru (Kyoto University,
 Japan)

17:45 - 17:55 discussion

17:55 - 18:05 Adjourn (Takaki Hatsui, RIKEN)

March 2 (Wednesday)

10:00 departure of shuttle bus to Tokyo station

12:00 arrival of shuttle bus

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