

Workshop on Advanced Structural Study using Spring-8 開催報告

日時：2016/11/19

場所：自然系学系 B 棟 118 講義室

共催：学際物質科学研究センター、数理物質融合科学センター

参加人数：16 名（内 6 名、海外から参加）

放射光、中性子など最先端量子ビームを利用した研究に関して活発な議論が行われた。特に、J-PARC を利用した中性子単結晶回折と SPring-8 での CdTe 検出器の利用については、装置の担当者と海外参加者、国内参加者の間で多くの意見交換がなされた。検出器については施設側にワークショップ参加者が連名で新検出器導入の提言を行う予定となった。



Workshop on Advanced Structural Study

Date: 19th November, 2016.

Room B118, Natural Sciences Building B, University of Tsukuba

Co-hosts: International Education and Research Laboratory Program, University of Tsukuba

Tsukuba Research Center for Interdisciplinary Materials Science (TIMS)

Center for Integrated Research in Fundamental Science and Engineering (CiRfSE),

9:00- 9:10 Opening. Eiji Nishibori, University of Tsukuba.

Session 1: Accurate Structural Studies on Materials Science

9:15- 9:45 Hidetaka Kasai, University of Tsukuba & Aarhus University.

"Charge density study of layered metal dichalcogenides."

9:45- 10:15 Florian Kleemiss, Universität Bremen, Germany.

"Crystal and enzyme environmental effects on the electron density of a cysteine protease inhibitor."

10:15- 10:45 Eiji Nishibori & Venkatesha Rama Hathwar, University of Tsukuba

"Structural Studies at Structural Materials Sciences Lab of University of Tsukuba."

Break

Session 2: Advanced Experimental and Analytical Technique.

11:00- 11:30 Lorraine Andrade Malaspina, Universität Bremen, Germany.

"Hirshfeld Atom Refinement"

11:30- 12:00 Shinobu Aoyagi, Nagoya City University, Japan.

"Time-resolved structure analysis of resonantly vibrating quartz crystal"

12:30- 13:00 Bo Iversen, Aarhus University & University of Tsukuba,

"Accurate crystallography: densities, excited states and beyond crystals"

Lunch

Session 3: Award session and Radiation Damage.

14:00- 14:30 Yoshiki Kubota, Osaka Prefecture University, Japan.

Winner of The CRSJ Award 2016.

14:30- 15:00 Simon Grabowsky, Universität Bremen, Germany.

"Metal-organic compounds at synchrotrons. Can we overcome radiation damage?"

15:00- 15:30 Jacob Overgaard, Aarhus University, Denmark

"Charge densities and slow magnetization dynamics in a linear Fe(II) compound"

Break

Session 4: World Leading SR and Neutron Facilities in Japan.

15:45- 16:15 Takashi Ohara, J-PARC/JAERI

"Single crystal neutron diffraction experiments at J-PARC"

16:15- 16:45 Kuniyoshi Sugimoto, SPring-8/JASRI.

"Investigation of charge density study with CdTe pixel detector"

16:45- 17:30 Open discussion. Discussion Leader, Jacob Overgaard

17:30- 17:40 Closing. Bo Iversen.

