第13回 理工学研究所講演会

International workshop on novel photo induced phenomena and applications

Date: November 11(FRI) and 12(SAT), 2016

Venue: **CST Hall**, Nihon University(Surugadai campus:Tokyo)

The aim and scope

The international workshop on novel photo-induced phenomena and applications is proposed by ALMIRU (Advanced Light Matter Interaction Research Unit). ALMIRU is organized in Nihon University for multidisciplinary project based on MEXT-Supported Program for the Strategic Research Foundation at Private Universities.

The aim of the workshop is to provide an international forum for discussions and education of interdisciplinary issues on Light Matter Interaction: photo induced phenomena and applications include ultrafast spin dynamics, plasmonics, energy transfer etc. We are hoping good interaction between scientist, researchers and students.

Keynote Lecturer

Prof. Dr. Theo Rasing Radboud Univ. Nijmegen

ALL-OPTICAL CONTROL OF MAGNETISM: from fundamentals to nanoscale engineering

Invited Speakers

1. Davide Bossini .....Univ. of Tokyo
2. Joseph Barker .....IMR Tohoku Univ.
3. Takuya Satoh .....Kyushu Univ.
4. Yusuke Hashimoto ..AIMR Tohoku Univ.
5. Takeshi Kato .....Nagoya Univ.
6. Tetsu Tatsuma .....Univ. of Tokyo

ALMIRU Speakers (Nihon Univ.)

1. Arata Tsukamoto
2. Joe Otsuki
3. Katsuji Nakagawa
4. Shinichiro Ohnuki

Poster Presentations

Contributed & ALMIRU

	Nov. 11(Fri)	Nov. 12(Sat)
9:00		9:00-9:40 **Tetsu Tatsuma** Optical and Photoelectrochemical Applications of Plasmonic Nanomaterials
10:00		9:40-10:20 **Joe Otsuki** Self-Assembling Supramolecules for Light Harvesting 10:20-12:00 **Poster Session**
12:00	12:00- Registration open	12:00-13:00 Lunch
13:00	13:00-13:10 Opening 13:10-13:50 **Arata Tsukamoto** Interdisciplinary issues on "Light Matter Interaction" and activity of "ALMIRU"	13:00-14:00 **Keynote lecture** **Prof. Theo Rasing** **ALL-OPTICAL CONTROL OF MAGNETISM: from fundamentals to nanoscale engineering**
14:00	13:50-14:30 **Davide Bossini** Femto-nanomagnonics: pushing the all-optical manipulations of spins to the limits 14:30-15:10 **Yusuke Hashimoto, Eiji Saitoh** Ultrafast time-resolved Imaging of propagation dynamics of optically-excited spin waves	14:00-14:10 Break 14:10-14:50 **Takuya Satoh** Opto-Magnonics: Spin-Wave Generation and Detection by Light
15:00	15:10-15:30 Break 15:30-16:10 **Joseph Barker** Ultrafast phenomena in magnetic insulating garnets	14:50-15:30 **Takeshi Kato** Time resolved magneto-optical Kerr effect of magnetic materials with high perpendicular magnetic anisotropy Closing
16:00	16:10-16:50 **Shinichiro Ohnuki** Electromagnetic Analysis of Light-Matter Interaction	
17:00	16:50-17:30 **Katsuji Nakagawa** Photo Induced Applications Applying Surface Plasmon Polariton for Magnetic Systems	
18:00	Break & Move to Banquet 18:00-20:00 Banquet	

Organized by Research Institute of Science & Technology, College of Sci. and Tech. Nihon University,
Steering: ALMIRU (Advanced Light Matter Interaction Research Unit in Nihon University)
in collaboration with
The Institute of Electrical Engineers of Japan Photo-magnonics Technology Investigation Committee
and IEEE magnetics Society Tokyo Chapter.