

## 第 6 回光科学異分野横断セミナー

The 6th Interdisciplinary Seminar for Optical Science

日本学術振興会 日伊-二国間交流事業

「フォノン援用ナノ光加工における揺らぎの利用と発展的応用」

“Fluctuation-mediated phonon-assisted nanophotonic fabrication and their applications”

- Date : 2015/ 3/17 (Tue.) 10:00~14:30
- Venue : Bldg. C10-Rm. 512 Nakamozu Campus, Osaka Prefecture University

10:00-10:05 Opening remarks: Takuya Iida (Osaka Prefecture University, Osaka, Japan)

10:05-11:15 **Japanese Group**

(1) Takuya Iida (Osaka Prefecture University, Osaka) [25 min.]

“Development of Novel Nano-composites via Near-field Interaction under Thermal Effects”

#Nguyen Duy Vy “Control of phonons for highly-sensitive measurement and prospective polariton lasing”

#Mamoru Tamura “Theory of Fluctuation-mediated Optical Assembling by Designed Light”

(2) Makoto Naruse (NICT, Tokyo, Japan) [15 min.]

“Stochastic modeling of optical near-field processes”

(3) Ruggero Micheletto (Yokohama City University, Yokohama) [15 min.]

“Photonics and nanotechnology research in Yokohama City University”

(4) Free Discussion (15 min.)

11:15-12:35 **Italian Group**

(1) Mario Santoro (University of Florence, Firenze) [15 min.]

“High Pressure Physics (diamond anvil cell)”

(2) Federico Gorelli (University of Florence, Firenze) [15 min.]

“Extreme static pressures with diamond anvils”

(3) Mario D’Acunto (ISM-CNR, Pisa) [15 min.]

“Identification of metallic nanoshells inside biosystems”

(4) Francesco Fuso (University of Pisa, Pisa) [15 min.]

“Nanoscopy (and a few optomechanics)”

(5) Free discussion [20 min.]

12:35-12:40 Closing remarks: Mario Santoro (University of Florence)

12:40-14:30 Laboratory tour & Lunch

※This seminar is confidential to frankly discuss scientific topics among the participants.

**Organizers:**

*Takashi Yatsui (School of Engineering, University of Tokyo)*

*Takuya Iida (Graduate School of Science, Osaka Prefecture University)*

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