

International Symposium on Photonics and Electronics Science and Engineering 2017

March 10 (Fri), 2017

Funai Tetsuro Auditorium, Katsura-Campus, Kyoto University, Kyoto, Japan

Opening (9:30 - 9:45)

9:30- 9:35 Opening

9:35- 9:45 Overview of Photonics and Electronics Science and Engineering
Susumu Noda and Shigeki Takeuchi (Kyoto University)

Session 1: Photonics (9:45 - 11:25)

9:45-10:15 III-nitride based quantum dots for single photon emission (tentative) (Invited)
Mark Holmes (The University of Tokyo)

10:15-10:35 Optical properties of excitons in widegap semiconductors
Ryota Ishii, Mitsuru Funato, and Yoichi Kawakami (Kyoto University)

10:35-11:05 Stable, Bright and Pure Single Photon Sources in Wide-Bandgap Materials (Invited)
Tim Schröder (Niels Bohr Institute, University of Copenhagen)

11:05-11:25 Toward the realization of photonic quantum devices using a nanofiber Bragg cavity
Hideaki Takashima and Shigeki Takeuchi (Kyoto University)

Lunch (11:25 - 12:10)

Poster Session (12:10 - 13:20)

Session 2: Electronics -Metamaterials (13:30 - 15:10)

13:30-14:00 All-Dielectric Metasurface Absorbers for Terahertz Photonics (Invited)
Willie Padilla, Xinyu Liu and Kebin Fan (Duke University)

14:00-14:20 Modeling of Radiation by Equivalent Circuit with Retarded Electromagnetic Couplings
Takashi Hisakado, Tohlu Matsushima and Osami Wada (Kyoto University)

14:20-14:50 Metamaterials with broken symmetries (Invited)
Satoshi Tomita (Nara Institute of Science and Technology)

14:50-15:10 Coherent storage of electromagnetic waves in metamaterials in analogy with
electromagnetically induced transparency
Toshihiro Nakanishi (Kyoto University)

Break (15:10-15:30)

Session 3: Fundamentals (15:30 - 16:20)

15:30-16:00 Ultraweak luminescence as a tool to explore floating structures in matter (Invited)
Francesco Musumeci
(Catania University and National South Laboratory of I.N.F.N. - Catania)

16:00-16:20 Etching, oxidation, and photon emission induced by cluster ion collision
Hiromichi Ryuto and Mitsuaki Takeuchi (Kyoto University)

Closing (16:20 - 16:30)