Program

13/11/2014 (Thursday)

10:20 Opening Remark (Osamu Kojima, Kobe University)

*Quantum optics and Nanophotonics

(chair: Takashi Kita, Kobe University)

- 10:30 Invited Talk
 Real-time control of semiconductor cavity-QED beyond the radiative lifetime Chao-Yuan Jin, Eindhoven University of Technology (Netherlands)
 11:00 Invited Talk
- Electron and hole spin dephasing induced by nuclear field fluctuation in semiconductor quantum dots Reina Kaji, Hokkaido University (Japan)
- 11:30 Plenary Talk Ultrafast coherent control of excitons and spins in quantum dots A. Mark Fox, University of Sheffield (United Kingdom)
- 12:20 Lunch & Poster Exhibition supported by



*Photonic and Nanostructured materials I

(chair: Kouichi Akahane, NICT)

14:00 Invited Talk

Optical properties of layered structures of semiconductor quantum dots and metal nanoparticles prepared by layer-by-layer assembly

Daegwi Kim, Osaka City University (Japan)

- 14:30 Contributed Talk CMOS-compatible nonlinear optical materials for Si photonics Kenji Imakita, Kobe University (Japan)
- 14:50 Contributed Talk
 Modulation of Photoluminescence Properties of InAs Quantum Dots on Nitrogen δ-doped GaAs
 Toshiyuki Kaizu, Kobe University (Japan)
- 15:30 Break

*Photonic and Nanostructured materials II

(chair: Hideki Hirori, Kyoto University)

16:00	Invited Talk
	Energy transfer processes in Eu-doped GaN
	Dolf Timmerman, Osaka University (Japan)
16:30	Invited Talk
	Superfluorescence of Biexcitons in CuCl Quantum Dots
	Kensuke Miyajima, Tokyo University of Science (Japan)
17:00	Invited Talk
	Two-Dimensional Electronic States of Epitaxial Nitrogen Atomic Sheet in
	GaAs
	Yukihiro Harada, Kobe University (Japan)
17:00	Invited Talk Two-Dimensional Electronic States of Epitaxial Nitrogen Atomic Sheet GaAs Yukihiro Harada, Kobe University (Japan)

17:30 Banquet (Ground Floor)

14/11/2014 (Friday)

*Photonic Devices and application

(chair: Osamu Kojima, Kobe University)

- 10:00 Plenary Talk Coherently Coupled Epitaxially Re-grown Photonic Crystal Surface Emitting Lasers Pichard Hogg, University of Shoffield (United Kingdom)
 - Richard Hogg, University of Sheffield (United Kingdom)
- 10:50 Invited Talk

Growth of self-assembled InAs quantum dots on InP substrates

Kouichi Akahane, National Institute of Information and Communications Technology (Japan)

11:20 Invited Talk

Growth and Characterization of Stacked InAs/GaAs Quantum Dots for Photovoltaics

Takashi Kita, Kobe University (Japan)

11:50 Lunch & Poster Session supported by



*Terahertz Physics and Ultrafast Spectroscopy

(chair: Dolf Timmerman, Osaka University)

14:30 Invited Talk

New Progress of Ultraintense THz Pulse Generation Technology and Nonlinear THz Spectroscopy

Hideki Hirori, Kyoto University (Japan)

15:00 Invited Talk

Photon-echo-based Broadband Quantum Interface using a Quantum Dot Ensemble

Junko Ishi-Hayase, Keio University (Japan)

15:30 Invited Talk

Ultrafast Optical Switch Based on Quantum Beat Oscillation in GaAs/AlAs Multiple Quantum Well

Osamu Kojima, Kobe University (Japan)

16:00 Closing (Takashi Kita, Kobe University)

Poster Program

P01	Theoretical Analysis of Selective Optical Assembling Based on
	Light-induced-force Nano Metropolis Method
	Mamoru Tamura, Osaka Prefecture University (Japan)
P02	Broadband near-infrared light source using multi-color InAs quantum dots
	for optical coherence tomography
	Takuma Yasuda, Wakayama University (Japan)
P03	Measurements of photo-induced surface relief in TlInS ₂
	Makoto Imanishi, Osaka Prefecture University (Japan)
P04	Two-Photon Absorption Band and Size-Selective Excitation of Biexcitons
	Confined in CuCl Quantum Dots
	Tatsuro Akatsu, Tokyo University of Science (Japan)
P05	Generation of Collinear and Degenerated Entangled Photons via
	Biexciton-Resonant Hyper-Parametric Scattering
	Hayate Shimizu, Osaka Prefecture University (Japan)
P06	Ultrafast optical responses caused by nonequilibrium transport process of
	carriers in GaAs epitaxial structures
	Takayuki Hasegawa, University of Hyogo (Japan)
P07	Excited States of Exciton and Biexciton in CuCl Bulk Crystal
	Masahiro Sugawara, Tokyo University of Science (Japan)
P08	Control of Optical Response of Nano-hole Array with Random Plasmonic
	Structure and Biological Application
	Takayasu Yoshikawa, Osaka Prefecture University (Japan)
P09	Fabrication and Characterization of Cyanine Dye Thin Films Grown by a
	Layer-by-Layer Method
	Junpei Nagauchi, Kobe University (Japan)
P10	Polarization of Photoluminescence of Cd _{0.8} Mn _{0.2} Te under High Density
	Excitation
	Masami Nagata, Tokyo University of Science (Japan)
P11	Development of Local Optical Fabrication Method for Photonic Structure
	with Heterogeneous Microparticles
	Yasuyuki Yamamoto, Osaka Prefecture University (Japan)
P12	Non-classical Light Generation from Isoelectronic Centers Embedded in
	Photonic Crystal Microcavities
	Michio Ikezawa, University of Tsukuba (Japan)
P13	Photoluminescence Spectra and Decay Profiles of In-rich InGaN Quantum
	Wells Structure Grown by MOVPE
	Kazuki Nagasawa, Tokyo University of Science (Japan)

- P14 Optical property of cavity polaritons in CuCl microcavities with Ag mirrors Goro Oohata, Osaka Prefecture University (Japan)
- P15 Photoluminescence decay dynamics in epitaxial two-dimensional nitrogen atomic sheet in GaAs

Takeshi Baba, Kobe University (Japan)

P16 THz pulse generated from high power shaped femtosecond laser pulses interaction with gas-plasma

Haiwei Du, RIKEN (Japan)

P17 Excitation power dependence of degree of entanglement of photon-pair from biexciton

Yasuo Yamamoto, Osaka Prefecture University (Japan)

P18 Broadband Down-conversion for Silicon Solar Cell by Using Semiconductor/Phosphor Heterostructure

Xiaojie Wu, Chinese Academy of Sciences (China)/ Kobe University (Japan)

P19 Control of Electronic States of Colloidal PbS Quantum Dots Embedded in Polymer Films

Mai Hirota, Kobe University (Japan)

P20 Photoconductivity-based strain sensing in graphene Satofumi Souma, Kobe University (Japan)