

CIAiS International Symposium 2018

Research and Education Consortium for Innovation of Advanced Integrated Science

Thursday, March 8, 2018 13:30-19:00

Koshiba Hall, The University of Tokyo

Opening 13:30-13:50

Chair: Yuta Yoshimoto

13:30-13:50

Welcome Address

Shigeo Maruyama

Consortium Director, The University of Tokyo

Opening Address

Keiji Yamamoto

Program Officer, Japan Science and Technology Agency

Keynotes 13:50-15:10

Chair: Junko Omachi, Eiji Yamamoto

13:50-14:30

Cavity Quantum Electrodynamics in the Ultrastrong Coupling Regime

Junichiro Kono

Department of Electrical and Computer Engineering,

Department of Physics and Astronomy,

Department of Materials Science and NanoEngineering, Rice University

14:30-15:10

Physics of Active Matter: New Way to Look at Living Systems

Masaki Sano

Department of Physics, School of Science, The University of Tokyo

Poster 15:10-15:50

Chair: Il Jeon, Xiao-Mei Zhang

15:10-15:50

Poster Session & Break

Next-generation Researchers 15:50-17:05

Chair: Junko Omachi, Il Jeon, Eiji Yamamoto, Xiao-Mei Zhang, Tomotake Yamakoshi

15:50-16:05

Nonlinear Raman spectroscopy -Toward measurements of bio-molecular dynamics-

Junko Omachi

Institute for Photon Science and Technology, School of Science,

The University of Tokyo

- 16:05-16:20 **Exploring Single-walled Carbon Nanotubes as Electrodes in Perovskite Solar Cells**
Il Jeon
Department of Mechanical Engineering, School of Engineering,
The University of Tokyo
- 16:20-16:35 **Molecular mechanism of the blueshift of water molecules around monosaccharides**
Eiji Yamamoto
Graduate School of Science and Technology, Keio University
- 16:35-16:50 **Towards Ultra-Thin Plasmonic Porous Silicon Solar Cells with Effective Passivation**
Xiao-Mei Zhang
Department of Chemical Science and Engineering; Department of
Mechanical Engineering, Tokyo Institute of Technology
- 16:50-17:05 **Quantum simulation of Ising spins with cold Rydberg atoms**
Tomotake Yamakoshi
Institute for Laser Science, University of Electro-Communications
- Closing 17:05-17:15**
Chair: *Yuta Yoshimoto*
- 17:05-17:15 **Closing Remarks**
Hitoki Yoneda
Institute for Laser Science, The University of Electro-Communications
- Poster 17:15-17:40**
Chair: *Eiji Yamamoto*
- 17:15-17:40 Poster Session & Break
- Social Gathering 17:40-19:00**
Chair: *Tomotake Yamakoshi*
- 17:40-19:00 Social Gathering