

JSPS Core-to-Core Japan Workshop 2018

Nanoscale electron-photon interactions via energy dissipation and fluctuation

Venue: Koshiba Hall, The University of Tokyo

Date: July 5-6, 2018

July 5

11:30	13:00	Core Member Meeting (Koshiba Hall Meeting Room)	
Opening session (Koshiba Hall 2F) (Chair: Prof. H. Tabata)			
13:30	13:35	Program Director: H. Tabata (University of Tokyo)	
13:35	13:40	Dean of School of Engineering: T. Ohkubo (University of Tokyo)	
13:40	13:45	Head of Research Cooperation Division: R. Hamada (JSPS)	
Session 1 (Koshiba Hall) (Chair: Prof. L. Thylén)			
13:45	14:25	Dr. J. Butet (EPFL)	Controlling the second harmonic light from plasmonic nanostructures
14:25	14:45	Prof. Y. Ikuhara (University of Tokyo)	Interface Atomic Structures and Dynamics of Li-ion Battery Materials
14:45	15:00	BREAK	
Memorial session for Prof. Katsuyuki Nobusada (Chair: Dr. M. Naruse)			
15:00	15:20	Prof. K. Iida (Institute for Molecular Science)	Control of Photoinduced Electron Transfer in MoS ₂ -Graphene Heterostructure by Applied Bias Voltage
15:20	16:00	Prof. L. Thylén (KTH)	Power Hungry Data Centers, Integrated Nanophotonics, Some Required Novel Photonics Materials and Possible Integration with Post Moore Electronics
16:00	16:20	Prof. T. Yatsui (University of Tokyo)	Novel chemical reactions using a non-uniform optical field
16:20	16:25	Group Photo (Koshiba Hall)	
16:30	18:30	Poster session (Room 1A-C, Eng. Bldg. 2)	

July 6

Session 3 (Koshiba Hall) (Chair: Prof. T. Saiki)			
9:30	9:50	Prof. T. Iwasaki (Tokyo Institute of Technology)	Quantum Technologies Based on Spin Defects in Diamond
9:50	10:30	Prof. F. Jelezko (University of Ulm)	Photoelectrical readout of single spins in diamond
10:30	10:50	Prof. K.T. Yong (Nanyang Technological University)	Functional Nanomaterials for Plasmonic Sensing
10:50	11:05	BREAK	
Session 4 (Koshiba Hall) (Chair: Prof. B. Vilquin)			
11:05	11:45	Prof. G. Koster (University of Twente)	Controlled properties in oxide heterostructures by interface-engineered oxygen octahedral coupling
11:45	12:05	Prof. G. Rijnders (University of Twente)	TBA
12:05	12:25	Prof. M. Hara (Tokyo Institute of Technology)	From Self-Assembly to Chemical Origins of Life
BREAK			
Session 5 (Koshiba Hall) (Chair: Dr. J. Butet)			
14:00	14:40	Prof. S. Huant (Institut NEEL)	Plasmonics under optical tips and STM tips
14:40	15:00	Dr. N. Chauvet (Institut NEEL)	Entangled Photons, a New Resource for Social Decision Making
15:00	15:20	Dr. M. Naruse (NICT)	Transform Single Photons to Ultrafast Decision Making
15:20	15:35	BREAK	
Session 6 (Koshiba Hall) (Chair: Prof. G. Koster)			
15:35	16:15	Prof. B. Vilquin (Ecole Centrale de Lyon)	Functional oxide thin films for nanoelectronic and energy harvesting
16:15	16:35	Prof. T. Saiki (Keio University)	Nano-optical and fluidic implementation of swarm intelligence
16:35	16:55	Prof. J.-J. Delaunay (University of Tokyo)	Narrow-band thermal emitter by coupling of cavity and Tamm plasmon resonances
16:55	17:00	Closing Remark: H. Tabata (University of Tokyo)	