



KINKEN-KIST joint symposium 2018

Auditorium, Institute for Materials Research, Tohoku University, Japan July 4 (Wed) - 5 (Thu), 2018

July 4 (Wed)					
9:30-10:00	Registration				
10:00-10:15	Opening remarks, Koki Takanashi (IMR)				
10:15-10:30	Introduction of PSI and KIST, Joonyeon Chang (PSI, KIST)				
Session 1. Spin	Session 1. Spintronics I				
10:30-11:00	"Current-driven creation, translation, and annihilation of ferromagnetic				
	skyrmions observed by scanning transmission X-ray microscopy"				
	Jun Woo Choi (Center for Electronic Materials, PSI, KIST)				
11:00-11:30	"Nonreciprocal propagation of electromagnetic waves, magnons, and				
	acoustic waves in multiferroics"				
	Yoshinori Onose (Physics of Crystal Defects, IMR)				
11:30-12:00	"Spintronics phenomena in topological semimetals"				
	Kentaro Nomura (Theory of Solid State Physics, IMR)				
12:00-13:30	Lunch (Group Photo)				
Session 2. Electronic materials					
13:30-14:00	"Simple and scalable artificial neuron based on ovonic threshold switch (OTS)" Suyoun Lee, (Center for Electronic Materials, PSI, KIST)				
14:00-14:30	"Microfabrication of functional thin films using LaAlO ₃ /BaO _x water-soluble sacrificial templates"				
	Takayuki Harada (Low Temperature Physics, IMR)				
14:30-15:00	"Complex hydrides for all solid-state battery electrolytes"				
	Sangryun Kim (Hydrogen Functional Materials, IMR)				
15:00-15:30	Break				

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15:30-16:00	"Three-dimensional organic field - effect transistors based on self- organization of organic semiconductor: Insulating polymer blends" Jung Ah Lim (Center for Opto-Electrnic Materials and Devices Research, PSI, KIST)
16:00-16:30	"Temperature effect on the microstructure of FeCo porous produced by liquid metal dealloying: its long-range ordering and transformation behavior" Soo-Hyun Joo (Non-Equilibrium Materials, IMR)
16:30-17:00	"Quantum phase transition in electric-field-induced 2D superconductors" Tsutomu Nojima (Laboratory of Low Temperature Materials Science, IMR)

July 5 (Thu)

Session 4. Spintronics II

9:00-9:30	"Transmission line model for materials with Spin - momentum locking"
	Seokmin Hong (Center for Electronic Materials, PSI, KIST)
9:30-10:00	"Spin-Hall magnetoresistance in ferrimagnetic Co-Gd / nonmagnetic Pt layers" Takeshi Seki (Magnetic Materials, IMR)
10:00-10:30	"Control of spin caloritronic effects in nanostructured materials" Masaki Mizuguchi (Collaborative Research Center on Energy Materials, IMR)
10:30-1050	break

Session 5. Semiconductor Devices

10:50-11:20	"Low dimensional nanostructured semiconductors for electronic and
	optoelectronic device applications"
	Do Kyung Hwang (Center for Opto-Electrnic Materials and Devices Research,
	PSI, KIST)
11:20-11:50	"GaN growth and blue LED on novel oxide substrate ScAlMgO4"
	Shigeyuki Kuboya (Physics of Electronic Materials, IMR)
11:50-12:00	Closing remarks, Joonyeon Chang (KIST) and Koki Takanashi (IMR)