

Artificial Two-Dimensional Electronic Systems

Date : December 12 (Thu.), 2019

Organized by : IBS-Center for Artificial Low Dimensional Electronic Systems

Time	Presenter	Title
Session 1	<2D semiconductors>	Chair : Changwon Park (IBS-CALDES)
08:45 ~ 09:05	Hongkun Park (Harvard Univ.)	Atomically Thin Canvas for Quantum Optoelectronics
09:05 ~ 09:25	Hyunyong Choi (Seoul Nat'l Univ.)	Coherent exciton dynamics in van der Waals 2D materials
09:25 ~ 09:45	Moon-Ho Jo (IBS-CALDES)	Monolithic Integrated Circuitry on Atomically Thin Van der Waals Semiconductors
09:45 ~ 10:05	Jonghwan Kim (POSTECH)	Ultrafast Optical Studies of Valley States in 2D Transition Metal Dichalcogenides
10:05 ~ 10:20	Coffee Break	
Session 2	<Local probes on 2D materials>	Chair : Jewook Park (IBS-CALDES)
10:20 ~ 10:40	J.A. Stroscio (NIST)	A microscopic view of the quantum Hall effect in graphene with atomic force spectroscopy
10:40 ~ 11:00	Seunghun Hong (Seoul Nat'l Univ.)	Mapping the localized transport properties of two-dimensional nanomaterials using a scanning noise microscopy method
11:00 ~ 11:20	Han Woong Yeom (IBS-CALDES)	Network of topological excitations in a correlated 2D material for flat band and superconductivity
11:20 ~ 11:40	Hyo Won Kim (Samsung Electronics)	Symmetry Dictated Topological Properties of Molybdenum Ditelluride
11:40 ~ 12:00	Jhin Hwan Lee (IBS-CALDES)	Barrier-bound states in flat-band systems
12:00 ~ 14:45	Lunch	
Session 3	<Novel phases in 2D materials>	Chair : Jhin Hwan Lee (IBS-CALDES)
14:45 ~ 15:05	Shuji Hasegawa (Univ. of Tokyo)	Graphene Intercalation
15:05 ~ 15:20	Bumjoon Kim (IBS-CALDES)	High-velocity spin wave in Sr2IrO4/Sr3Ir2O7 heterostructure
15:20 ~ 15:45	Junsung Kim (IBS-CALDES)	Complex electronic phases in a heterostructured iron-based superconductor Sr2VO3FeAs