

Exciton Dynamics and Magnetism in van der Waals Layered Materials

Date : December 13 (Fri.), 2019

Organized by : IBS-Center for Integrated Nanostructure Physics

Time	Presenter	Title
Session 1	<Nonequilibrium transport in 2D materials>	Chair: Dinh Loc Duong (IBS-CINAP)
09:00 ~ 09:30	Sanghyun Oh (Univ. of Minnesota-Twin Cities)	Graphene Acoustic Plasmon Resonators for Extreme Field Confinement and Infrared Spectroscopy
09:30 ~ 10:00	Yeong Hwan Ahn (Ajou Univ.)	Investigation of carrier dynamics in 2D layered materials using femtosecond photocurrent microscopy
10:00 ~ 10:30	Xinfeng LIU (Chinese Academy of Sciences)	Twisted-angle-dependent Optical Behaviors of Intralayer Excitons and Trions in WS ₂ /WSe ₂ Heterostructure
10:30 ~ 11:00	Ji-Hee Kim (IBS-CINAP)	Zero excess energy for carrier multiplication in van der Waals layered materials
11:00 ~ 11:30	Zengfeng Di (Shanghai Institute of Microsystem and Information Technology)	Ion beam modification of graphene material for photodetector and resistive memory application
11:30 ~ 13:00	Lunch	
Session 2	<2D magnetism>	Chair: Ji-Hee Kim (IBS-CINAP)
13:00 ~ 13:30	Pham Nam Hai (Tokyo Institute of Technology)	Giant spin Hall effect in topological insulator
13:30 ~ 14:00	Masaaki Tanaka (The Univ. of Tokyo)	New Fe-doped III-V ferromagnetic semiconductors and their heterostructures
14:00 ~ 14:30	Manh-Huong Phan (Univ. of South Florida)	Light Control of Two-Dimensional Magnetism in Transition Metal Dichalcogenide Based Heterostructures
14:30 ~ 15:00	Kenneth Stephene Burch (Boston College)	Evidence for Hinge Zero Mode in a Topological Superconductor
15:00 ~ 15:30	Coffee Break	