

Novel Epitaxial Quantum Architectures | SRC_CNEQA (SNU)

Date & Time Dec. 6 (Wed) 10:15~16:15

Place 8F, Halla Hall [On & Off Hybrid Session]

Organized by SRC-Center for Novel Epitaxial Quantum Architectures, Seoul National University

Time(Korea Time)	Presenter	Title-Research field
Dec. 6 (Wed) 10:15~11:45, Session 1 Chair: Jonghwan Kim (POSTECH, Korea)		
10:15-10:45	Jeehwan Kim (Massachusetts Institute of Technology)	Innovations for saving future of electronics: Wafer-free 3D integration a.k.a "monolithic 3D (M3D)"
10:45-11:15	Kunook Chung (Ulsan National Institute of Science & Technology)	Strain engineering of light-emitting diodes and its optoelectronic device applications
11:15-11:45	Jinkyoung Yoo (Los Alamos National Laboratory)	Epitaxy and post-processing of semiconductors on two-dimensional materials
Dec. 6 (Wed) 13:00~14:30, Session 2 Chair: Bohm Jung Yang (Seoul National University)		
13:00-13:30	Pu Yu (Peking University)	A correlated polar ferromagnetic metal by design
13:30-14:00	SungWoo Nam (University of California, Irvine)	Strain-exciton coupling in two-dimensional materials
14:00-14:30	Jonghwan Kim (Pohang University of Sience and Technology)	Strong phonon-assisted luminescence processes of indirect excitons in semiconductor moiré superlattices
Dec. 6 (Wed) 14:45~16:15, Session 3 Chair: Kunook Chung (Ulsan National Institute of Science & Technology,Korea)		
14:45-15:15	Young Joon Hong (Sejong University)	Heterogeneous vertical integration of R/G/B micro-LEDs via remote and van der Waals epitaxy
15:15-15:45	Jieun Lee (Seoul National University)	Generation and manipulation of quantum light sources in van der Waals materials
15:45-16:15	Bohm Jung Yang (Seoul National University)	Quantum valley Hall effect in twisted bilayer systems