

Quantum phase transitions in complex states | CUPT (Sogang U)

Date & Time Dec. 4 (Mon) 13:00~16:30

Place 2F, Udo Hall [[On & Off Hybrid Session](#)]

Organized by Center for Ultrafast Phase Transformation, Sogang University

Time (Korea Time)	Presenter	Title
Dec. 4 (Mon) 13:00~14:30 Session 1 Chair: Hyeonjun Baek (Sogang University, Korea)		
13:00-13:25	David Reis (Stanford University)	Observation and characterization of a novel photoexcited lattice instability in SnSe with ultrafast x-ray pulses
13:25-13:50	Chan-Ho Yang (Korea Advanced Institute of Science & Technology)	Jahn-Teller domains and orbital engineering in LaMnO ₃ films
13:50-14:15	Sae Hwan Chun (Pohang Accelerator Laboratory, POSTECH)	4D Visualization of the Light-induced Coherent Magnon by an X-ray Free Electron Laser
14:15-14:30	Sung Soo Ha (Sogang University)	Time-resolved Ultrafast Strain Evolution in SrTiO ₃ Nanocrystals by Bragg Coherent X-ray Diffraction Imaging
Dec. 4 (Mon) 14:50~16:30 Session 2 Chair: Ji-Hee Kim (Pusan National University, Korea)		
14:50-15:15	Nuh Gedik (Massachusetts Institute of Technology)	Terahertz field induced metastable magnetization in a van der Waals antiferromagnet
15:15-15:40	Jongseok Lee (Gwangju Institute of Science and Technology)	Real-time tracing of electron-phonon-spin couplings in optically excited oxide heterostructures
15:40-16:05	Tae Hee Kim (Ewha Womans University)	Controlling phase transitions in vertically stacked heterostructures based on 2D materials
16:05-16:30	Ji-Hee Kim (Pusan National University)	Hot Carrier Dynamics in van der Waals Layered Materials