

Emerging Quantum Phenomena in Low Dimensional Materials | IBS_QNS (Ewha)

Date & Time Dec. 5 (Tue) 10:15~ 11:45 / Dec. 6 (Wed) 10:15~11:45 / Dec. 7 (Thu) 10:15~12:15

Place Dec. 5 (Tue): 8F, Tamna Hall / Dec. 6 (Wed) ~ Dec. 7 (Thu): 2F, Udo Hall [\[On & Off Hybrid Session\]](#)

Organized by IBS-Center for Quantum Nanoscience (Ewha Womans University), University of Ulsan

Date	Time(Korea Time)	Presenter	Title
Dec. 5 (Tue)	Dec. 5 (Tue) 10:15~ 11:45 Session 1 Chair: Yujeong Bae (Institute for basic science, Korea)		
	10:15-10:45	Yukio Hasegawa (University of Tokyo)	2D superconductivity vs. disorder: monolayer superconducting Pb on vicinal substrates
	10:45-11:15	Christoph Wolf (QNS, IBS)	Creating and certifying entanglement in spins-on-surface systems
	11:15-11:45	Linghao Yan (Soochow University)	On-surface synthesis and characterization of atomically precise low-dimensional organic materials
Dec. 6 (Wed)	Dec. 6 (Wed) 10:15~11:45 Session 2 Chair: Fabio Donati (Ewha Womans University, Korea)		
	10:15-10:45	Luciano Colazzo (QNS, IBS)	Long Range Magnetic Order in a 2D Metal-Organic Coordination Network
	10:45-11:15	Doohee Cho (Yonsei University)	Amorphous Shiba bands in the iron-based superconductor FeTe _{0.55} Se _{0.45}
	11:15-11:45	Byungcheol Park (SungKyunkwan University)	Four-dimensional terahertz access to quantum spin waves
Dec. 7 (Thu)	Dec. 7 (Thu) 10:15~12:15 Session 3 Chair: Sanghoon Kim (Ulsan University, Korea)		
	10:15-10:39	Ki-Suk Lee (Ulsan National Institute of Science & Technology)	The Bloch point as a Unique 3D Topological Singularity and Its Role in a Topological Transition
	10:39-11:03	Minkyu Park (Korea Advanced Institute of Science & Technology)	Signature of spin wave induced bulk acoustic wave generation
	11:03-11:27	Sanghoon Kim (Ulsan University)	Helical Magnetism and spin transport of the Fe ₅ -xGeTe ₂ crystal
	11:27-11:51	Ju-Young Yoon (Tohoku University)	Handedness anomaly in the dynamics of a non-collinear antiferromagnet driven by spin-orbit torque
	11:51-12:15	Seungmo Yang (Korea Research Institute of Standards and Science)	Magnetic Skyrmion toward Spintronics Application.