

Ahreum Lee

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Research Interests	Quantum Information Processing; Atomic Physics; Quantum Optics; Collective Radiation; Superradiance; Quantum Many-Body Systems; Atom-Photon Interaction	
Education	Ph.D. in Physics, University of Maryland College Park Advisor: Prof. Steven L. Rolston	Present
	B.S. in Physics, Pohang University of Science and Technology Thesis: Anisotropic Transport Properties in Black Phosphorus Advisor: Prof. Seung-Hoon Jhi	2018
Awards	Excellence Award for Bachelor's Thesis National Excellence Scholarship Semester High Grade Honors Summer Session Scholarship	2017 2016-2017 2013, 2016, 2017 2016
Publications	See also my google scholar page. 2. H. S. Han*, A. Lee* , K. Sinha, F. K. Fatemi, and S. L. Rolston, "Observation of Vacuum-Induced Collective Quantum Beats" <i>Phys. Rev. Lett.</i> 127 , 073604 (2021). (*coauthors) 1. G. Lee, Y. S. Ihn, A. Lee , U. Kim, and Y. Kim, "Nonlocal two-photon interference of energy-time entangled photon pairs generated in Doppler-broadened ladder-type ^{87}Rb atoms" <i>Phys. Rev. A</i> 100 , 053817 (2019).	
Posters	APS DAMOP "Vacuum-induced collective dynamics in three-level V-type atomic systems"	2021
	KSEA Virginia Washington Metro Regional Conference "Collective modes of 1d atomic clouds"	2020
Teaching Experience	Intermediate Electricity and Magnetism (PHYS411) Teaching assistant of Prof. Victor M. Yakovenko	2019