

**Department of Physics and Photon Science Dr.
Kyu-Sup Lee appointed as assistant professor
at Pukyong National University**

– Contributing to the development of ultra-high-speed information device technology using terahertz wave spectroscopy technology...



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GIST (Gwangju Institute of Science and Technology, Acting President Raekil Park) Department of Physics and Photon Science graduate Kyu-Sup Lee (Advisor Professor Do-Kyeong Ko, graduated in August 2017) was appointed as an assistant professor of the Department of Physics at Pukyong National University on March 1 this year.

Dr. Kyu-Sup Lee completed his master's and doctoral degrees at the Laboratory for Ultrafast Nonlinear Optics (LUNO) from March 2009 to August 2017 under the guidance of Professor Do-Kyeong Ko.

During the course of his degree, he conducted 'a study on the generation of terahertz waves using femtosecond ultrashort lasers'. He received his Ph.D. with a thesis on the 'optical and electronic properties of $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite using terahertz waves generated through a nonlinear optical process'.

After graduating, Dr. Lee served as a postdoctoral researcher for about 5 years at the Department of Electronics, National University of Singapore, from September 2017 to February 2023. Based on the terahertz wave generation and ultra-fast spectroscopy technology he majored in at graduate school, he has been conducting research on the development of ultra-high-speed and low-power information device technology in the field of spintronics.

In particular, as the lead author and co-author, the results of research on the transmission dynamics at a nanometer distance of 'magnon', a quantum particle of spin waves, were published in 'Nature Nanotechnology' and 'Science', proving its excellence with publications in top international journals.

Dr. Kyu-Sup Lee said, "I want to focus on nurturing experts in the field by continuing research on advanced technologies based on optics. I will do my best to become a respected educator who can set an example for my juniors."