

Department of Physics(Seoul)

Tel : +82 2 961 0230 | Fax : +82 2 961 0436 | E-mail : phys@khu.ac.kr | URL : http://phy.khu.ac.kr

The mission of the graduate program in the Physics Department at Kyung Hee University is to pursue the discovery of genuinely new phenomena in nature. The faculty members and graduate students are actively engaged in research in various fields of physics ranging from theoretical particle physics to theoretical and experimental condensed matter physics related to advanced applied physics and complex systems. The department is equipped with state-of-the-art experimental equipment and a huge cluster of computers for cutting edge research. Also notable are the collaborative research programs with the neighboring institutions, namely Korea Institute of Science and Technology(KIST) and Korea Institute of Advanced Studies(KIAS). The students are also provided with the opportunity to visit and study at the Ecole Polytechnique, which is one of the most renowned universities, in France. More specifically, we aim to train students to be active researchers and global leaders in the following fields after graduation : fundamental research in theoretical particle physics, condensed matter physics and complex systems, and advanced applied research and development of nanoscience, semiconductor devices, information display, digital communication, space science and medical instruments.

| Degree Requirements |

- At least 24 course units of graduate level credit in Physics courses are required for the master's degree and 60 course units for the doctoral degree(including units completed in the master's course).
- Students must pass a qualifying examination.
- Students must fulfill presentation, defense, and document requirements for the Physics thesis committee.
- A thesis advisor can be any faculty member from the Physics department.

| Courses |

Classical Electromagnetism, Quantum Mechanics, Classical Mechanics, Solid State Physics, Optics, Nuclear Physics, Particle Physics, Advanced Modern Physics, Statistical Mechanics, Semiconductor Physics, Many-body Theory, Quantum Theory of Solids, Advanced Solid State Physics, Special Topics in Solid State Physics, Advanced Applied Physics, Advanced Topics in Applied Physics, etc.

| Faculty |

- ___ Jeung Sun Ahn, Experimental Condensed Matter Physics, johnsonahn@khu.ac.kr
- ___ Nak-Woo Kim, Theoretical Particle Physics, nkim@khu.ac.kr
- ___ Chinkyoo Kim, Experimental Condensed Matter Physics, ckim@khu.ac.kr
- ___ Yongsup Park, Experimental Condensed Matter Physics, parky@khu.ac.kr
- ___ Young-Kyun Kwon, Theoretical Condensed Matter Physics and Computational Physics, ykkwon@khu.ac.kr
- ___ Soon-Hyung Yook, Complex Systems and Information Physics, syook@khu.ac.kr
- ___ Changyeon Won, Experimental Condensed Matter Physics, cywon@khu.ac.kr
- ___ Sang Wook Kim, Quantum Science and Information Physics, swkim0412@khu.ac.kr
- ___ Euihun Joung, Theoretical High Energy Physics, eunhun.joung@khu.ac.kr
- ___ Young Duck Kim, Experimental Condensed Matter Physics Experiment, ydk@khu.ac.kr
- ___ Junghwan Goh, Particle Physics Experiment, jhgoh@khu.ac.kr
- ___ Seok-Kyun Son, Experimental Condensed Matter Physics, Quantum Science and Information Physics, skson@khu.ac.kr
- ___ Junho Choi, Experimental Condensed Matter Physics, junhochoi@khu.ac.kr
- ___ Junggi Yoon, Theoretical Particle Physics, Quantum Science and Information Physics, junggi.yoon@khu.ac.kr