



ABOUT US

CityU is a young, fast-growing, research university. It ranks 15 in Asia and 51 in the world according to THE and QS rankings. The Department of Physics was founded in 2017, building on the outstanding tradition of the former Department of Physics and Materials Science. The last Research Assessment Exercise conducted by the Research Grants Council of Hong Kong ranked CityU's physics second in Hong Kong.

WHY STUDY PHYSICS @ CITYU

- **Distinguished faculty** Our internationally recognized faculty are elected as APS Fellow, AAAS Fellow, MRS Fellow, Highly Cited Researchers, etc.
- **World-class research** Our research is published and highlighted in high-profile journals including *Nature*, *Science*, *Nature Physics*, *Physical Review Letters*, etc.
- **Rigorous curriculum** We equip students with knowledge and critical thinking skills that will enable them to tackle difficult problems throughout their career, and in their life.
- **Financial support** All eligible full-time PhD students will receive a studentship of HK\$17,000 per month. Students with outstanding academic achievements and good research potentials can compete for Hong Kong PhD Fellowship (HK\$309,600 per year). Additional financial support including Research Tuition Scholarship, Conference Grant, Research Activities Fund, Chow Yei Ching SGS Entrance Scholarship is also available.
- **Hong Kong** Asia's gateway to the world and a truly international city, Hong Kong offers a unique lifestyle where East meets West, tradition meets contemporary, and mountains meet the ocean.

RESEARCH FIELDS AND TOPICS

Theory and Computational Physics: quantum transport, correlated electrons, spintronics, topological and two-dimensional systems, quantum simulation with cold atoms, metamaterials, photonic crystals

Spectroscopy and Imaging: synchrotron X-ray, neutron scattering, NMR, phase transition of materials, spin-orbital coupling in multiferroics, structure and dynamics of glass and liquids, deformation behaviors

Atomic, Molecular and Optics, and Quantum Materials:

quantum entanglement, topological quantum computing and Majorana fermions, Dirac and Weyl semimetals, Bose-Einstein condensation, quantum Hall Effect, superconductivity and topological systems, frustrated magnetism, graphene, optomechanics

Soft Matter and Biophysics: dynamics of protein and subcellular processes, emergent phenomena in live cells, biological networks, novel physics-based data acquisition protocol and instrumentation in biomedical imaging

Radiation Physics: environmental radiation, radiation biophysics, radiation-induced biointerfaces, ion-track technology

REQUIREMENTS

- Bachelor's or Master's degree in Physics or related fields
- English requirement: a minimum total score of 79 (internet-based test) in TOEFL; or a minimum overall band score of 6.5 in IELTS; or a minimum score of 490 in the Chinese mainland's College English Test Band 6 may be accepted

HOW TO APPLY

- Students interested in any of the related field should contact and discuss with their potential supervisors. The applicant is advised to obtain the consent of one of the faculty members to be his/her supervisor before submitting the application.
- For further details of application procedures, please visit the website of Chow Yei Ching School of Graduate Studies: <https://www.cityu.edu.hk/pg/research-degree-programmes>

CONTACT

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