Division of Physics

MPhil-PhD in Physics *Admission Code: PHY*

Programme

The programme is research-oriented. Facilities are available for working in a broad range of areas in experimental and theoretical physics. Research topics may vary from year to year and applicants should contact the Division of Physics for details.

MPhil Stream

Full-time Mode

(Normative Study Period: 24 months)

- Coursework : 12 units
- Thesis Research : 6 units each term

In the final year of study, the student must submit a thesis to Division and pass an oral examination defending his/her thesis.

PhD Stream

Students must pass the candidacy examination within 24 months from first entry.

Full-time Mode

(Normative Study Period: 48 months)

- Coursework : 12 units
- Guided Study : 1 unit each term
- Thesis Research : 6 units each term during pre-candidacy period and 12 units each term during post-candidacy period

For students entering with a research master's degree, the normative study period is 36 months.

In the final year of study, the student must submit a thesis to Division and pass an oral examination defending his/her thesis.

Please visit the Division's homepage for more information.

Fields of Specialization

Experimental:

Astrophysics, neutrino oscillation and particle physics; ultracold atoms and molecules; surface sciences and nanostructures on surfaces, synthesis and property of semiconductor and metal nanostructures, plasmonics properties of metal nanostructures, optical properties of semiconductors, nonlinear optical properties of organic materials; fabrication and characterization of biomorphic materials, ceramic-metal matrix composites, thin film growth and magnetic oxides, undercooled metal liquids and nanostructured metal composites; turbulence, bacterial motion, colloids, glass formation, liquid-solid impact; experimental condensed matter physics; quantum sensing.

Theoretical / Computational:

Particle physics, cosmology, gravitational waves, pulsations of compact stellar objects; condensed matter physics, electronic and optical properties of semiconductor nanostructures, interacting electron-phonon systems, strongly correlated systems, topological matters; cold atoms and cold molecules, quantum matters, quantum optics, quantum physics and quantum information; complex system, turbulence, quantitative finance; computational physics, computational many-body physics, computational biophysics, computational material physics.

Admission Requirements

Applicants must meet the general qualifications required for admission to the Graduate School[1] and should have majored in Physics or a related field.

Additional Application Information

Qualified applicants will be invited to an entrance examination and interview. However, applicants who have satisfactory score of the GRE Subject Test (in either "Physics", "Chemistry", "Mathematics", "Biology", or "Biochemistry Cell and Molecular Biology") taken within the past three years may be exempted from the entrance examination.

Admission Advisor

Prof. Lei XU

Application Deadline

1 December 2016
For applicants who apply for PhD programme through the Hong Kong PhD Fellowship Scheme (HKPFS)[2]

31 January 2017
For applicants who apply for MPhil programme directly with CUHK

Throughout the year
For applicants who apply for PhD programme directly with CUHK (i.e. non-HKPFS applicants)

CONTACT METHODS

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1 For the general qualifications required for admission to the Graduate School, please refer to pages 16-17.
2 For information on HKPFS, please refer to page 17.