



PhD in Experimental Particle Physics



Department of Physics, the Hong Kong University of Science and Technology

The Hong Kong University of Science and Technology (HKUST) is the leading Engineering school in Asia and one of the world's leading scientific centres. The HKUST is a member of the ATLAS Collaboration at the LHC through and one of the founding members of the Joint Consortium for Fundamental Physics in Hong Kong (JCFP). Members of the JCFP group are currently involved in experimental studies of Higgs boson properties, searches for additional Higgs bosons and for physics Beyond the Standard Model, upgrade of the ATLAS muon system and ITk construction.

Department of Physics HKUST is currently accepting applications from PhD candidates in Experimental Particle Physics to join the ATLAS group in the Autumn 2020. The successful candidates are expected to take a leading role in the analyses of Higgs boson properties with the LHC Run-II and Run-III data, searches for the BSM physics and/or in the ATLAS ITk construction. Significant contributions to the ATLAS detector and software operation and maintenance are also expected.

During the first two years the successful candidates will be based in Hong Kong to fulfil their coursework and teaching assignments. Several visits to CERN to participate in activities of the ATLAS Collaboration are expected. A longer period at CERN is foreseen for the terminal years of the studentship.

The requirements to the candidates are as follows:

- A candidate should have or about to receive a Bachelor or Master level (or equivalent) University degree in Particle or Nuclear physics.
- Computing skills and knowledge of at least one programming language are highly desirable.
- Independent research experience and/or participation in undergraduate High Energy, Nuclear Physics, Computing and/or Detector Schools are a plus.
- The candidate should possess a good knowledge of spoken and written English.

Interested candidates are invited to apply as soon as possible, and in any case before June 30 2020. For further information please contact Prof. K. Prokofiev kprok@ust.hk.