



ETH Institute for
Particle Physics

ETH

Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Our new group for Precision Physics at Low Energy is located in the Institute for Particle Physics (IPP) at ETH Zürich. We are presently looking for excellent candidates with master degree or diploma in experimental physics in order to fill

Doctoral student positions in the field of muon and muonium physics.

Our goal is to develop a new technique for producing a very brilliant high quality beam of muonium (i.e. the atom composed of a positive muon and an electron) and to perform fundamental measurements on this exotic atom. Ultimately the system allows for precision tests of bound-state QED, the determination of the muon mass and the fine structure constant, but also for more exotic searches for lepton flavor and other symmetry violations and tests of antimatter gravity. Our research will be done in our labs within the IPP and using the world's highest intensity muon facilities at the nearby Paul Scherrer Institut (PSI).

Candidates should have a good knowledge in experimental physics and some hands-on experience in at least one of the areas: electronics, mechanical design, cryogenics, particle detectors, particle or atom beams, gas physics, vacuum.

We offer working in a highly motivated team. ETH Zürich and the city itself are inspiring environments for working and living. The ETH campus provides many opportunities for exchange with other research groups. Our close affiliation to PSI gives access to world leading facilities. A good command of English is expected.

Please send inquiries or applications including CV and email addresses of two reference persons to Prof. Dr. Klaus Kirch at klaus.kirch@phys.ethz.ch.

