

**Master or long internship position:
laser system and laser cooling of Lithium atoms**

We are looking for a Master student (or equivalently long internship) with a strong motivation for experimental physics, to build a laser system for laser cooling of Lithium atoms, for use in a cold atom-based quantum simulation machine. The project will consist in building a laser spectroscopy unit, set up and align a high power laser unit and stabilize the frequency and power of the laser. The system will then be used to laser-cool lithium 6 atoms, testing different strategies to bring it to quantum degeneracy.

The candidate should have some background in optics and/or electronics, and be interested in crafting electronic and optical systems.

The starting date is expected for summer 2016. Candidates should contact Jean-Philippe Brantut (brantutj@phys.ethz.ch) and provide a CV and motivation letter.