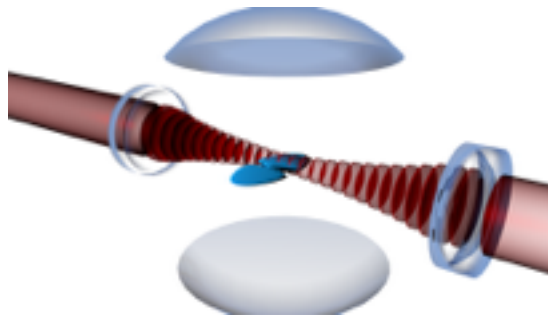


PhD position in cold Fermi gases

We are looking for a PhD student to design, build and operate a new generation of cold atoms experiment, to perform quantum simulations of transport processes and mesoscopic physics phenomena in correlated Fermi gases. We will make use of cavity assisted detection techniques to perform quantum non-demolition measurements, and use high-resolution optics to imprint optical structures, ranging from lattices or disorder to quantum point contacts and mesoscopic devices.



Experience in and/or strong willingness to learn the following fields are highly valued: quantum optics, atomic physics, vacuum technologies, CAD mechanics and optics design, lasers, electronics and computer programming. We expect a motivated student with excellent background in physics and interest in experiments, and team playing abilities.

We offer a motivating learning environment with an international character, attractive salaries, and an ambitious project at the crossing of condensed matter physics and quantum optics.

The starting date is expected to be in summer 2016. Candidates should contact Jean-Philippe Brantut (brantutj@phys.ethz.ch) and provide a CV, motivation letter and two reference letters or coordinates of possible referees.