

PhD position in experimental solid state physics: Topological matter under extreme conditions



Research Group: Light Fermion Spectroscopy

We are an experimental group at the University of Fribourg, centrally located in Switzerland. We want to understand the charge dynamics of materials hosting light fermions, such as Weyl and Dirac semimetals, or topological insulators. We explore the materials' physics, studying their optical properties under extreme conditions: high magnetic fields, low temperatures, and under high pressure.

Job description

The PhD candidate will work on optical and magneto-optical response of topological materials, under uniaxial pressure.

The full-time position will be supervised by Prof. Ana Akrap.

Requirements

Interested candidates should have:

- Undergraduate degree in physics or related subject
- Good knowledge of solid state physics
- Strong communication skills, fluency in written and spoken English
- Experience with cryogenic techniques, high magnetic fields, or spectroscopy, is an advantage

Application and contact

Please send a cover letter stating your motivation for this position and when you could start, together with a comprehensive CV including your diploma, a list of courses attended, and contact information of two referees. For further information please contact:

ana.akrap@unifr.ch

Female candidates are encouraged to apply.