

The Leibniz Institute for Solid State and Materials Research Dresden (IFW Dresden) is a non-university research institute and a member of the Leibniz Association. The IFW employs approximately 600 people and one focus is on the training of young scientists besides enhancing fundamental and applied research development. At the highest international level, the IFW operates modern materials science on a scientific basis and makes the obtained results useful for the economy. The complex and interdisciplinary research work is carried out within the IFW by five scientific institutes, which are supported by a highly developed technical infrastructure. The IFW supports its employees in reconciling work and family life and regularly submits to the berufundfamilie® audit. Further information at: <http://www.ifw-dresden.de>.

PhD positions in Topological Matter (m/f/d)

The Institute for Theoretical Solid State Physics at the IFW Dresden currently has an open PhD position, as part of a new research team led by Dr. Cosma Fulga, focusing on the theoretical study of topological phases of matter.

The aim of the doctoral research will be to theoretically study the properties of topological phases of matter and to explore new types of topological systems (like the ones shown in the figures). These include topological insulators and superconductors, but also gapless systems such as Weyl semimetals. Part of the focus will be on determining the stability of topological phases to perturbations such as disorder, as well as studying their dynamical properties. The research environment is international and friendly, with many opportunities for collaboration with other research groups, both theoretical and experimental.

Your Profile:

The successful candidate (m/f/d) should have a Master's degree or Diploma in theoretical physics, preferably with a background in condensed matter physics, as well as high motivation and good English skills. Some experience with programming languages is preferred.

Conditions:

The duration of the PhD is three years with the possibility of extension for a fourth year. The salary is according to the German tariff TV-L (EG 13, 50%). The employment is starting 1 April, 2019 at the earliest, but later dates are possible.

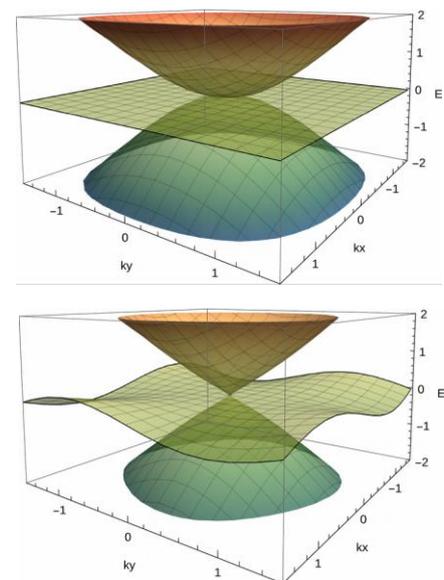
The IFW would like to increase the proportion of women in science. Qualified women are therefore explicitly invited to apply. Severely disabled applicants (m/f/d) are given preferential treatment if they have the same qualifications.

If you are interested in the position, please send your application including a CV, a motivation letter describing the research career goals, skills and experience, copies of certificates and the names and contact details of two references citing the **reference number (H5103-1/19)** as a single pdf file (other formats will not be accepted) to both the following email-addresses:

bewerbung@ifw-dresden.de and i.c.fulga@ifw-dresden.de.

The position is open as long as the announcement is online.

For further information please contact Dr. Ion Cosma Fulga at i.c.fulga@ifw-dresden.de.



Band-structures of a novel topological semimetal (arXiv:1702.03939)