



The **ATLAS group at the University of Freiburg (Prof. Karl Jakobs)** has openings for  
**a Postdoctoral and PhD Positions**

Our group has long-standing experience in Higgs boson physics and in searches for physics beyond the Standard Model and is strongly engaged in the upgrade of the ATLAS inner tracker (ITk) in the area of the silicon strip detector in the endcap region.

The positions are focused on data analysis in ATLAS with possible engagement in the operation of the ATLAS semiconductor tracking detector (SCT) at CERN or performance studies on  $\tau$  leptons. In the analysis the search for di-Higgs boson production is the central topic. Based on our experience, we plan to study di-Higgs boson production, which is essential to probe the important Higgs boson self-coupling, in the  $HH \rightarrow \tau\tau b\bar{b}$  decay mode.

The postdoc position is limited to a duration of three years with the possibility of an extension by one more year. Payment is according to the E13 salary level of the German TV-L system. The University of Freiburg is an equal opportunity employer. Suitable qualified women as well as persons with disabilities are encouraged to apply. At our university, both postdocs and PhD students are expected to participate to some extent in teaching at the faculty.

Applicants to the postdoc position should hold a doctoral degree in physics and should have demonstrated excellent skills in particle physics data analysis. Applicants to the PhD positions should hold a master degree in physics and a link to the master thesis (if available) should be given. Applications to both positions should include a curriculum vitae, copies of certificates of degrees, a letter of motivation and the names and contact addresses of two persons who could provide letters of reference.

The positions are available from **1 July 2023**.

Applications should be sent to **christina.skorek@physik.uni-freiburg.de** until **7 May 2023**. Later applications may also be considered if the positions are not yet filled.

**Further information can be obtained from:**

Prof. Karl Jakobs (karl.jakobs@uni-freiburg.de)

Dr. Christian Weiser (christian.weiser@physik.uni-freiburg.de)