



The **ATLAS** group of **Prof. Markus Schumacher** at the **University of Freiburg** has openings for

Two PhD Students

in the area of investigation of the Higgs boson and search for new physics starting on **1st March 2021 or later**.

Our group has long-standing experience and expertise in Higgs boson physics, operation of WLCG Grid compute and storage clusters and in the development of federated HTC/HPC computing within the ATLAS collaboration.

We are seeking highly motivated and enthusiastic PhD candidates to contribute to our efforts in the investigation of the Higgs boson: Measurement of total, fiducial and differential cross-sections in the $H \rightarrow \tau\tau$ decay mode, Search for CP violation in Higgs-boson production and its interpretation in effective field theories or Search for lepton-flavour violating decays of the observed Higgs boson or other hypothetical bosons. Participation in technical work in the area of tau-trigger, embedding or WLCG cluster operation is also expected.

The research will be carried out in the context of the Research Training Group "Mass and Symmetries after the Discovery of the Higgs Particle at the LHC", which offers an excellent environment for supervision, advanced training and further qualification. Frequent travels to CERN and an extended stay at CERN up to one year are also foreseen.

Applicants should hold an excellent Master degree in particle physics. Applications, including a motivation letter, CV, a short description of the research experience, copies of certificates of degrees, copy of master thesis and the names and contact addresses of three persons to be contacted for letters of reference, should be sent via email in one pdf-file until **31. December 2020** to markus.schumacher@physik.uni-freiburg.de.

More information can be obtained from Prof. Markus Schumacher,
E-Mail: markus.schumacher@physik.uni-freiburg.de.

Candidates are selected in accordance with the provisions of the AGG (Allgemeines Gleichbehandlungsgesetz - German General Equal Treatment Act). Applicants with disabilities (Schwerbehinderte Menschen) will be given preferential consideration in case of equal qualification. We are particularly pleased to receive applications by women for the positions advertised here. Information on the handling of personal data can be found at <http://www.zuv.uni-freiburg.de/service/stellenausschreibungen/datenschutz-bewerbungen/>.