JOHANNES GUTENBERG UNIVERSITÄT MAINZ

The Johannes Gutenberg-University Mainz (Germany) has an opening for one

Research Associate (PhD position)
(TV-L EG 13/2)

in the ETAP (Experimentelle Teilchen- und Astroteilchen Physik) research group at the Institute of physics. The ETAP group shares major responsibility for the construction, operation and upgrade of the ATLAS experiment at the LHC. In addition, the ETAP group is strongly involved also in other experiments such as IceCube (for the observation of high-energy neutrinos from astrophysical sources), Xenon (for the direct detection of dark matter) and NA62 (for the study of rare kaon decays). Since 2012, the ETAP group is also engaged in the search for **Axion-Like-Particles (ALPs)** using laboratory-based experiments. ALPs are hypothetical ultralight and very weakly interacting particles, which are an excellent candidate for the dark matter in the Universe but also could explain several astrophysical observations.

The search will be carried out at the **ALPS-II experiment**, which is currently being installed at DESY, Hamburg. Further information on the ALPS-II experiment can be found under https://alps.desy.de. The ETAP group is involved in the development of a photon detection system for ALPS-II, based on a superconducting transition edge sensor. The successful applicant is expected to work on the further development and commissioning of this system as well as on the data acquisition for ALPS-II. A participation in the data taking and data analysis is foreseen. The future PhD student will be **based at DESY Hamburg** for a large fraction of the appointment.

Applicants are required to hold an academic master degree in physics. Experience in computing or electronics is desirable.

The Johannes Gutenberg-University Mainz aims at increasing the percentage of women in academic positions and strongly encourages women scientists to apply. The university is an equal opportunity employer and particularly welcomes applications from persons with disabilities. German language skills are not necessarily required.

Qualified candidates are requested to submit their application, including a curriculum vitae, a brief description of their research experience and interests and one letter of recommendation, to Prof. Dr. Matthias Schott, Institut für Physik, 55099 Mainz, Germany (or via e-mail to schottm@uni-mainz.de), until the 30th of June 2018.

Contacts:
Prof. Dr. Matthias Schott (schottm@uni-mainz.de)
https://www.lichtenberg.physik.uni-mainz.de