



PRISMA+



JOHANNES GUTENBERG
UNIVERSITÄT MAINZ

The PRISMA+ Cluster of Excellence at the Johannes Gutenberg-Universität Mainz (Germany) has openings for

Postdoctoral Research Associates (Physicists)

(TV-L EG 13)

on research and development of high granularity calorimeters for future collider and neutrino experiments, to be filled immediately.

The PRISMA+ Cluster of Excellence – Precision Physics, Fundamental Interactions and Structure of Matter – is focussed on the key questions concerning the fundamental constituents of matter and their implications for the physics of the Universe. Within PRISMA+, the particle and astroparticle physics groups have extensive experience in the conception and construction of particle detectors and fast electronics. R&D for scintillator-based detectors is performed in close collaboration with the PRISMA+ Detector Laboratory, which has recently established a new Laboratory for Scintillation and Fluorescence Detectors that provides additional expertise and key infrastructure. Current activities include calorimeter development for the SHiP experiment, for future electron-positron colliders within the CALICE collaboration and for the DUNE Near Detector.

The successful candidates are expected to **play a leading role in the design optimisation, prototype development and construction of highly granular calorimeters** for one of the above experiments. Their work will be part of a coordinated R&D effort on high-precision calorimetry together with the Detector Laboratory team and the PRISMA+ research groups.

Applicants are required to have a Ph.D. (or an equivalent degree) in physics and should have in-depth research experience in experimental particle physics. A strong background in detector design or construction as well as GEANT4-based simulation is desirable.

The Johannes Gutenberg-Universität Mainz aims at increasing the percentage of women in academic positions and strongly encourages female scientists to apply.

The University is an equal opportunity employer and particularly welcomes applications from persons with disabilities.

The appointment will be initially for a period of two years, with the possibility of an extension. Qualified candidates are requested to submit their application, including a curriculum vitae, a brief description of their research experience and interests, and a list of the most relevant publications to Prof. Dr. Volker Büscher and Prof. Dr. Lucia Masetti, Institut für Physik, 55099 Mainz, Germany (or via email to buescher@uni-mainz.de and masetti@uni-mainz.de) and to arrange for at least two letters of recommendation to be sent directly to the same address.

Applications will be considered as they arrive and will be accepted until **September 6, 2019**.

Contacts:

Prof. Dr. Volker Büscher (buescher@uni-mainz.de)

Prof. Dr. Lucia Masetti (masetti@uni-mainz.de)