

The Johannes Gutenberg-Universität Mainz (Germany) and the PRISMA⁺ Cluster of Excellence has an opening for a

PhD Position in Experimental Particle Physics (50% TV-L EG 13)

in the **SHiP group**, to be filled immediately.

The SHiP experiment is planned to search for new long-lived, weakly interacting, and neutral particles at a new beam-dump facility at the CERN SPS. The Mainz SHiP group is engaged in R&D for an electromagnetic calorimeter with directional information (ECAL) and for the liquid scintillator of the surrounding veto system, with the offered position being within the ECAL group. The SHiP ECAL is designed as a scintillator sandwich calorimeter with SiPM read-out and additional high-precision layers for the measurement of shower directions. The successful applicant is expected to take a leading role in the **development of the ECAL** towards a technological prototype, with particular emphasis on the SiPM read-out of the scintillators.

The position is part of the new Cluster of Excellence PRISMA⁺ “Precision Physics, Fundamental Interactions and Structure of Matter“, which focuses on key questions concerning the fundamental constituents of matter and their implications for the physics of the Universe. It consists of experimental and theoretical research groups working together in the areas of astro-particle, high energy and hadron physics, nuclear chemistry, as well as precision physics with ultra-cold neutrons and ion traps.

Applicants are required to have a Master in Physics or an equivalent degree. Prior experience with particle detectors is desirable. German language skills are not required.

The Johannes Gutenberg-Universität 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.

Qualified candidates are requested to submit their application, including a cover letter, curriculum vitae, at least two names of referees and copies and of degree certificates and transcripts to Dr. Rainer Wanke and Prof. Volker Büscher, Institute of Physics, JGU Mainz, 55099 Mainz, Germany (or via e-mail to wanke@uni-mainz.de and buescher@uni-mainz.de). The position will remain open until filled.

Contacts:

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