

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 **NA62 group**, to be filled immediately.

The NA62 experiment at the CERN SPS measures ultra-rare kaon decays in the search for physics beyond the Standard Model with special emphasis on the “golden” decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$. Data taking has taken place until 2018 and will be continued in 2021 after the SPS/LHC shutdown. The Mainz NA62 group has responsibility for the operation of the NA62 hadron calorimeter and is heavily engaged in data analysis. The successful applicant is expected to participate in the **refurbishment of the NA62 hadron calorimeter** during the shutdown and in the **analysis of existing and future NA62 data to search for New Physics beyond the Standard Model** in rare and forbidden K^+ and π^0 decays.

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 data analysis, read-out electronics, or detector operation 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 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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