

The Max Planck Institute for Physics invites applications for a

Postdoctoral position (f/m/d)

focused on R&D in connection with the Axion Dark Matter search experiment MADMAX. The Axion is a prime candidate to explain the Dark Matter problem of the universe. It is independently predicted by Peccei Quinn (PQ) symmetry breaking to explain the strong CP problem.

MADMAX is an experimental approach to search for Dark Matter axions with a mass around 100 μ eV, a mass range favored by a class of theoretical models. The new approach makes use of the idea of a copper mirror in connection with dielectric layers inside a strong magnetic field that boost the axion to photon conversion to a detectable rate in the microwave frequency regime.

The successful candidate is expected to take over a leading role within the MADMAX collaboration in the development, characterization and implementation of important parts of the experimental system, such as the dielectric haloscope booster and the microwave radiometer.

Formal requirements for this position are a PhD in microwave engineering, experimental physics, astronomy, or a closely related field. The candidate should have a background in microwave technology, microwave engineering, experimental radio astronomy or closely related topics. Experience with RF signal simulation tools like ADS, COMSOL, CST or similar as well as experience with cryogenic equipment is an advantage.

Salary and benefits are according to the German public service pay scale (TVöD Bund). The contract is initially limited to two years and can be extended in accordance with German law and available funding.

The Max Planck Society strives for gender equality and diversity. The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Further information can be obtained from Dr. Béla Majorovits (email: bela@mpp.mpg.de). Interested applicants should send their applications (including a curriculum vitae, a statement of research interests, a list of publications) until 17 February 2023, exclusively via our online application-portal. Regardless of the deadline the call is open until the position is filled. Please provide three names and contact details of persons who will be providing reference letters. We are looking forward to your online application.

Max Planck Institute for Physics

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The Max Planck Institute for Physics collects and stores personal data that you send for your application. Further information on the data collected can be found at

https://www.mpp.mpg.de/en/studying-and-working/jobs/data-protection-statement-for-job-applications