



The *Max-Planck-Institute for Physics (MPP)* is a research institute focusing on particle and astroparticle physics from both an experimental and a theoretical perspective.

We invite applications for a

### **Postdoctoral Position (f/m/d)**

focused on the development of cryogenic detectors for CRESST.

CRESST is a dark matter search based on scintillating cryogenic calorimeters and is located at the Gran Sasso underground laboratory in central Italy. CRESST is a worldwide leading experiment in the search of light dark matter candidates to explain the lack of matter in the universe. The CRESST group at MPP has a many years' leadership in the development and operation of the low-threshold high-performance detectors that are needed to reach the experimental sensitivity.

**We seek Ph.D. scientists for a postdoctoral research position to strengthen the R&D activities on cryogenic detectors. The primary focus of this position is the optimization of Transition Edge Sensors design for the CRESST-III experiment and the study of alternative target materials, within the framework of the Collaborative Research Center "Neutrinos and Dark Matter in Astro- and Particle Physics" (SFB 1258 <https://www.sfb1258.de>).**

The successful candidate is expected to take a major role in detector R&D for the next phase of the CRESST experiment and in the testing of the new developments in dilution refrigerators at MPP or in our cryostat dedicated for detector R&D at Gran Sasso. He/she should have good communication skills and enjoy working as part of a team as well as independently.

Candidates must hold or be near completion of a PhD in experimental physics at the time of recruitment. A person with strong laboratory skills and a predilection toward instrumentation would be ideal for detector R&D. The candidate should have a background in astroparticle-, particle- or nuclear physics. Experience with cryogenic detectors and dilution refrigerators as well as in low background methods is an advantage.

The position is limited to a period of initially two years, with a possible extension of up to three years. Salary and benefits are in accordance with the German public service pay scale (TVöD Bund).

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.

For questions concerning the position offered, please contact Federica Petricca (email: [petricca@mpp.mpg.de](mailto:petricca@mpp.mpg.de)). Interested scientists should send their applications including a CV with list of publications and a 2-page research interest) until **October 15, 2021** and arrange for three recommendation letters to be sent as PDF and received by the same date via e-mail to [dwerner@mpp.mpg.de](mailto:dwerner@mpp.mpg.de).

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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>