



Postdoctoral position (f/m/d) within COSINUS

The *Max-Planck-Institut für Physik (MPP)* is a research institute focusing on particle and astroparticle physics from both an experimental and a theoretical perspective. COSINUS is a new experiment for the direct detection of dark matter using cryogenic calorimeters based on Sodium Iodide (NaI) scintillating crystals. The COSINUS collaboration started on October, 25 to construct its own experimental facility located at the Gran Sasso under-ground laboratory (LNGS) in central Italy. The COSINUS group at MPP, led by Dr. Karoline Schäffner and started in 2019, is involved in all main aspects of the experiment, with special emphasis on development and fabrication of detectors, cryogenics, data analysis and the design and construction of the experimental facility at LNGS.

The successful candidate is expected to have a solid background in one or more of the following areas: astroparticle physics, nuclear physics, low temperature physics, fabrication and operation of low-temperature calorimeters. Strong interest in experimental works and having experience in cryogenic technique is an asset.

The candidate is expected to take a major role in detector development and detector design and will participate in the installation, commissioning and operation of the COSINUS cryogenic facility at LNGS and in test- and characterization runs of COSINUS detectors operated in dilution refrigerators both at MPP and LNGS.

As the COSINUS collaboration is a diverse group of experimental physicists, construction engineers, technicians and PhDs, very good communication skills and the ability to coordinate a small team as well as independently organize the work are crucial.

The position will be based at MPP and the candidate should expect to travel frequently to LNGS, within constraints due to the pandemic and work at the underground site. Given the requirement of on-site work and very limited availability of public transportation to the experimental site, possession of a valid driver's license is desirable. Candidates must hold or be near completion of a PhD in experimental physics at the time of recruitment.

Salary and benefits are according to the German public service pay scale (TVöD Bund). The position is limited to a period of initially two years, with the possibility of prolongation.

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.

Interested scientists should send their applications including a CV, a list of publications, a cover letter addressing the required skills in detail, a statement of research interest, and arrange for three recommendation letters to be sent as PDF and via email to dwerner@mpp.mpg.de. Strong communication and language skills should be evidenced by publications and presentations.

Feel free to address questions to Dr. Karoline Schäffner (kschaeff@mpp.mpg.de). Applications are accepted until **December 17, 2021**, or until the position is filled.

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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/>