

Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)



The Max Planck Institute for Physics invites applications for a

Postdoctoral position

focused on the commissioning of the GERDA experiment.

The GERDA experiment is designed to investigate the nature of the neutrino and its absolute mass-scale by searching for the neutrinoless double-beta decay of ^{76}Ge . The goal is to either establish the Majorana nature of the neutrino or push the relevant exclusion limits to the mass-scale indicated by neutrino oscillations. The experiment uses the novel approach of shielding crystals with a cryogenic liquid.

The successful candidate is expected to take a leading role in following and helping the commissioning phase of the GERDA experiment. This will involve frequent travelling to the Laboratori Nazionali del Gran Sasso underground laboratory (LNGS). The candidate will also be responsible for evaluation of Monte Carlo simulations of the GERDA setup and the comparison of the first GERDA data with expectations from these simulations. First data of the GERDA experiment are expected this year.

Formal requirement for this position is a PhD in experimental physics. The candidate should have a background in nuclear-, particle-, or astroparticle physics and a good knowledge of programming. Experience with HPGe diodes, C++, Root and GEANT 4 are an advantage.

Salary and benefits are commensurate with the German public service pay scale (TVöD Bund). The contract is initially limited to 2 years, with the possibility of an extension. The Max Planck Society is an equal opportunity employer. One of its goals is to increase the percentage of women in positions where they are underrepresented. Women are especially encouraged to apply. The Max Planck Society is committed to employing more handicapped people. Applications of handicapped people are particularly welcome.

Further information may be obtained from Dr. Béla Majorovits (bela@mppmu.mpg.de) or Prof. Allen Caldwell (caldwell@mppmu.mpg.de). Applicants should submit an application letter, a statement of research interests, a curriculum vitae, a list of publications, and arrange for three letters of support to arrive no later than April 30 at

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