

31.8.2023

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**UNIVERSITÄT
BERN**

AEC
ALBERT EINSTEIN CENTER
FOR FUNDAMENTAL PHYSICS

The *Albert Einstein Center for Fundamental Physics* (AEC) and the *Laboratory for High Energy Physics* (LHEP) at the University of Bern invite applications for a

Post-Doc Position in Experimental Low Energy Particle Physics

Our research group, the *Fundamental Neutron Physics Group*, is working in the field of experimental low energy particle physics. We develop novel methods and pursue high-precision neutron physics experiments to sensitively test the standard model of particle physics. The group is active in several exciting state-of-the-art projects. In particular, we play leading roles in the search for a neutron electric dipole moment, firstly, using ultracold neutrons within the nEDM collaboration based at the Paul Scherrer Institute (n2EDM-experiment: <https://arxiv.org/abs/2101.08730>) and secondly using a cold pulse neutron beam (Beam EDM: <https://arxiv.org/abs/1309.1959>). We also investigate a new interferometric method with the goal to measure the electric charge of the neutron (Q-Neutron: <https://arxiv.org/abs/1812.03986>). Ultimately, some of the experiments are intended for the upcoming European Spallation Source in Sweden. The group also operates dedicated laboratories concerning low-field magnetometry and high-voltage developments.

We are looking for a highly skilled and enthusiastic researcher who enjoys working on quickly developing projects in low energy particle physics. You should hold a PhD in physics and ideally have a strong background in experimental particle physics techniques. Hands-on experience in at least one of the following aspects/fields is required: EDM or similar precision experiments, neutron physics, magnetometry, high-voltage techniques, data acquisition, and experimental software control.

You are a team-oriented and communicative person and act independently, show initiative and are practice-oriented. Good knowledge of English (written and oral) is mandatory.

Candidates are requested to send a short letter of motivation, their CV, names and contact information of possible references, and copies of key documents (transcripts, degree certificates) to the email address given below.

The position is open starting from November 1st 2023. The review of applications will continue until the position is filled.

Prof. Dr. Florian PIEGSA

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