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【384】 Analysis and implications of the magnetic environment for n2EDM

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Currently the n2EDM experiment is under construction at PSI. Its purpose is to measure the neutron electric dipole moment (nEDM) with an order of magnitude better sensitivity than the predecessor experiment. As the experiment is sensitive to magnetic field changes it is important to be able to control the magnetic field in the magnetically challenging environment. A magnetic field mapping campaign of the relevant experimental area has been performed.

The results of this study as well as their influence on the active magnetic shielding system (SFC) planned for n2EDM will be presented.

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