

Status of the MUonE experiment

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The MUonE experiment aims to measure with extremely high precision the leading-order hadronic contribution to the muon anomalous magnetic moment $g-2$. This currently represents the largest uncertainty in the theoretical prediction. A first test has been performed in 2021, with prototypes of the silicon sensors and related electronics, the fundamental components of the detector. The collected data are under analysis. The detector assembly and the tests will be carried on during 2022. In 2023 a test run is foreseen to validate the proposed methods and technologies, which will lead to the final proposal of the experiment. The current status and prospects of MUonE will be discussed.

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