10th International Conference on New Frontiers in Physics (ICNFP 2021)



Contribution ID: 95 Type: Talk

Status of the MUonE experiment

Monday, 30 August 2021 11:30 (30 minutes)

The MUonE experiment aims at an independent and competitive determination of the leading hadronic contribution to the muon anomalous magnetic moment $a_{\mu}=(g_{\mu}-2)/2$, based on an alternative method, complementary to the existing ones. It could have a crucial role to clarify the comparison of the a_{μ} measurement with the Standard Model, given the recent Fermilab result, and the tension between the accepted theory prediction and a new Lattice QCD calculation.

MUonE proposes to measure the hadronic component of the running electromagnetic coupling by the μe elastic scattering obtained by the 160 GeV muon beam at CERN on fixed target. The project status will be presented, in view of the test run on a reduced detector expected in 2021-22.

Is this abstract from experiment?

Yes

Name of experiment and experimental site

MUonE (CERN) (project web page: https://web.infn.it/MUonE/)

Is the speaker for that presentation defined?

Yes

Details

Dr. Giovanni Abbiendi, INFN Sezione di Bologna, Italy, https://www.bo.infn.it/

Internet talk

Maybe

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Session Classification: Mini Workshop on Instruments and Methods in HEP