The MUSE experiment at PSI: Status and Plans

Tuesday, 27 August 2019 16:00 (25 minutes)

The MUSE experiment at PSI is part of a suite of experiments that aim to resolve the proton radius puzzle that has surfaced over the past decade. MUSE is particularly interesting because it attempts to determine the proton radius through simultaneous measurements of muon-proton scattering and electron-proton scattering, in addition to performing these reactions with positive and negative leptons. This not only reduces systematic uncertainties but also provides sensitivity to two-photon exchange contributions which may be responsible for some of the discrepancies seen in earlier experiments. MUSE has almost completed its commissioning phase and is scheduled to start data collection this fall. The current status and plans of the MUSE experiment will be presented.

Working Group
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Primary author: LORENZON, Wolfgang (Michigan)
Presenter: LORENZON, Wolfgang (Michigan)
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