



Contribution ID: 141

Type: **Oral**

Status of MUSE at PSI

Tuesday 22 October 2019 12:15 (20 minutes)

It is rare to have a discrepancy in such a basic property as proton size, and yet during the past decade measurements of proton charge radius using muons and electrons have disagreed by almost six standard deviations. The MUon proton Scattering Experiment (MUSE) at PSI aims to shed more light on this puzzle, by measuring the elastic scattering of muons, electrons, and positrons on protons in one apparatus. The progress and status of the experiment will be presented in this talk.

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Session Classification: Session