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Status of the MUSE Experiment at PSI¹

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The MUon Scattering Experiment (MUSE) at Paul Scherrer Institute (PSI) has been developed to address the proton-radius puzzle. The experiment will measure elastic electron-proton and muon-proton scattering data with positively and negatively charged beams in a four-momentum-transfer range from 0.002 to 0.08 GeV². Each of the four sets of data will allow the extraction of the proton charge radius. In combination, the data test possible differences between the electron and muon interactions and additionally two-photon exchange effects. The status of the experiment will be discussed.

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