

Production Target Requirements for the Mu2e-II Experiment

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We will propose an evolution of the Mu2e experiment - called Mu2e-II - that would utilize an increased proton intensity to improve the sensitivity for neutrinoless muon-to-electron conversion by one order of magnitude over Mu2e. The proposed upgrade will use as much of the Mu2e infrastructure as possible, but improvements to the Mu2e apparatus necessary to accommodate the increased beam intensity. We will focus here on the pion production target requirements, assuming that we will utilize a proton beam delivered by a CW-capable PIP-II linear accelerator.

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