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**Progress on Pion Cross Section Measurements at ProtoDUNE** JAKE CALCUTT, Michigan State University, DUNE COLLABORATION — ProtoDUNE is the largest, currently-operating Liquid Argon Time Projection Chamber (LArTPC), and serves as both a source of data for charged-particle interactions and a prototype for the upcoming Deep Underground Neutrino Experiment (DUNE). The detector was commissioned in Fall 2018, with test beam data taken immediately after that before the CERN Long Shutdown 2. The test beam consisted of hadrons (protons, positive pions and kaons) and muons in the momentum range of 1 - 7 GeV/c and electrons in the range of .3 - 7 GeV/c. The pion data from the test beam is of particular interest for DUNE in the context of both its neutrino interaction model and detector model. There is currently very limited data of pion-Ar interactions below .5 GeV/c momentum and no data beyond that. As such, the ProtoDUNE pion data will provide necessary constraints to DUNEs experimental simulation. This talk will show progress on current efforts toward pion-Argon cross section measurements at ProtoDUNE.

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