

Measurement of pion-argon inelastic cross section in ProtoDUNE-SP

The Deep Underground Neutrino Experiment (DUNE) is a leading-edge, international experiment for neutrino science and proton decay studies. ProtoDUNE-SP is one of two liquid argon time projection chambers (LArTPCs) built at CERN using the single phase technology to test the design and robustness of the detector components for DUNE. ProtoDUNE-SP accumulated over 4 million beam events in the H4-VLE beam line at CERN, including pions, protons, kaons and electrons from 0.3 to 7 GeV/c, which are being used to study the detector response to different particles and to measure the hadron-argon cross sections. This talk will discuss the progress on the measurement of the pion-argon inelastic cross section using ProtoDUNE-SP data.

Working group

WG2

Author: YANG, Tingjun (Fermi National Accelerator Lab. (US))

Presenter: YANG, Tingjun (Fermi National Accelerator Lab. (US))

Session Classification: Poster session NB: do not use Safari; use Firefox, Chrome or Edge