

ProtoDUNE SP R&D

Friday, November 2, 2018 2:40 PM (20 minutes)

ProtoDUNE-SP is the single-phase DUNE Far Detector prototype that was recently built at CERN and is in operation since September 2018. ProtoDUNE-SP is a crucial part of the DUNE effort towards the construction of the first DUNE 10-kt fiducial mass far detector module (17 kt total LAr mass), but also a significant experiment in its own right. With a total liquid argon (LAr) mass of 0.77 kt, it represents the largest monolithic single-phase LArTPC detector to be built to date. In this talk I will give an overview on the construction and commissioning phase of the detector. Furthermore, preliminary results based on the first data collected during beam and cosmic runs will be discussed.

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