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Results on physics performance of ProtoDUNE-SP

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The Deep Underground Neutrino Experiment (DUNE) is a next-generation long-baseline neutrino oscillation experiment designed to measure CP violation in neutrinos and the neutrino mass hierarchy among other BSM goals. DUNE's far detector modules are based on liquid argon TPC (LArTPC) technology. ProtoDUNE-SP is DUNE's large scale single-phase prototype operated at the CERN Neutrino Platform. ProtoDUNE-SP has finished its Phase-1 running in 2020 and has successfully collected test beam and cosmic ray data. In this talk, I will discuss the first results on ProtoDUNE-SP Phase-1's physics performance.

Collaboration name

DUNE

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