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The NOvA Test Beam Program

Tuesday, 28 July 2020 19:45 (15 minutes)

NOvA is a long-baseline oscillation neutrino experiment designed to study and measure a wide range of important topics for neutrino physics such as the neutrino mixing parameters, the neutrino mass hierarchy, and CP violation in the lepton sector. The NOvA Test Beam experiment uses a scaled-down detector of 30 tons to analyze tagged beamline particles. A new tertiary beamline deployed at Fermilab can select and identify electrons, muons, pions,kaons and protons with energies from 0.3 to 2 GeV. Using these data, the Test Beam program will provide NOvA with a better understanding of the largest systematic uncertainties impacting NOvA's analyses, which include the detector response, calibration, and hadronic and electromagnetic energy resolution. In this talk, I will present the status
and future plans for the NOvA Test beam program, along with preliminary results.

I read the instructions

Secondary track (number)

1. Operation, Perform., Upgrade of Present Dets.

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