

Abstract Submitted
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Applications of the MIPP Experiment to Neutrino Beam Calculations MARK MESSIER, Indiana University, MIPP COLLABORATION — The Main Injector Particle Production experiment (FNAL E907) measures particle production on nuclear targets using a tagged secondary beam of p , \bar{p} , K^\pm , and π^\pm ranging in momenta from 5 to 80 GeV/ c , and a primary proton beam of 120 GeV/ c . The experiment uses a large acceptance spectrometer for tracking and a combination of dE/dx , time of flight, threshold and ring-imaging Cherenkov techniques for particle identification over the full range of final state parameters. The experiment is just getting underway and will run through the summer of 2005. This talk will discuss the application of the MIPP measurements to neutrino experiments such as K2K, MINOS, miniBooNE, T2K, and NOvA which use proton-nucleus interactions to produce high intensity neutrino beams.

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