

Abstract Submitted
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Reducing Neutrino Flux Uncertainties Using Hadron Production Measurements at NA61/SHINE KYLE ALLISON, University of Colorado, Boulder, SHINE/NA61 COLLABORATION — Neutrino flux uncertainties are frequently a leading systematic uncertainty in current day measurements of neutrino oscillation parameters at long-baseline experiments. These uncertainties can be constrained by hadron production measurements performed by the NA61/SHINE experiment at CERN's Super Proton Synchrotron. NA61/SHINE analyzes the interactions of charged hadrons with materials relevant to long-baseline experiments to measure the differential cross sections of particles that contribute to neutrino flux. This talk will review recent and ongoing measurements with thin and replica targets taken by NA61/SHINE for current and future neutrino beams.

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