

Abstract Submitted  
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**Flux and Inclusive Cross Section measurement in the MINOS Near Detector.** DEBDATTA BHATTACHARYA, University of Pittsburgh, MINOS COLLABORATION — The MINOS experiment has been recording beam neutrino interactions in the near and the far detector since March 2005 using the high-intensity NUMI beam. The near detector data sample has millions of events in the 1-50 GeV range. The shape of the inclusive cross-section as a function of energy can be extracted from the total charged current sample. We collect muon antineutrino data as well which is about 6% of the NUMI beam. This enables us to also extract the shape of the antineutrino inclusive cross-section. Understanding the neutrino cross section in the given energy range will be important both for MINOS and for the next generation neutrino oscillation experiments (T2K, NOvA).

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