

6th International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region (NUINT 09)

Contribution ID: 127

Type: **Talk**

First CCpi+ Cross Section Results from MiniBooNE

Friday 22 May 2009 11:20 (25 minutes)

The MiniBooNE experiment has just completed a measurement of the CCpi+/CCQE cross section ratio as a function of neutrino energy. In addition, a new event fitter has been developed that allows for the reconstruction of not only the final state muon, but the charged pion as well. By using a new particle identification technique, we are able to distinguish muon and pion tracks with an 88% success rate. First results will be presented for an absolute CCpi+ cross section measurement as a function of neutrino energy, as well as several differential cross section measurements of the final state muon and pion kinematics. Double differential cross sections as a function of the direction and energy have been measured for both the muon and pion, and each of the final state muon and pion measurements has also been performed as a function of neutrino energy to decouple the cross section results from the MiniBooNE neutrino energy spectrum.

Author: Dr WILKING, Michael (TRIUMF)

Presenter: Dr WILKING, Michael (TRIUMF)

Session Classification: Single pion production III

Track Classification: Single pion production