

Abstract Submitted
for the APR07 Meeting of
The American Physical Society

Measurement of Neutrino Induced Exclusive Quasi-Elastic Cross Section in NOMAD JAE KIM, The University of South Carolina — The measurement of neutrino induced charged current Quasi-Elastic (QE) cross section using the NOMAD data will be presented. The signature of the ν_μ QE interaction is an outgoing μ^- and a proton. I developed a likelihood probability density function to separate QE from background - two track resonance and deep inelastic scattering events. Data themselves were used to help constrain the background estimate. By kinematic comparison to the measured QE data, the axial mass was also measured. This preliminary result is among the most precise measurements of the QE process.

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Date submitted: 12 Jan 2007

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