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Charged-Current Interaction Measurements in MiniBooNE TEPPEI KATORI, Indiana University, MINIBOONE COLLABORATION — Low energy (200<Enu<2000 MeV) neutrino oscillation experiments, including Mini-BooNE, require a model of charged current quasi-elastic (CCQE) neutrino interactions to predict signal samples. Using a high-statistics sample of muon neutrino CCQE events, MiniBooNE finds that a simple Fermi gas model, with appropriate adjustments, accurately characterizes the CCQE events observed in a carbon-based detector. The extracted parameters include an effective axial mass, $M_A = 1.23 + /-0.20$ GeV, used to describe the four-momentum dependence of the axial-vector form factor of the nucleon and a Pauli-suppression parameter, kappa = 1.019 +/- 0.011.

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