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Charged current single charged pion production in SciBooNE KATSUKI HIRAIDE, Kyoto University, SCIBOONE COLLABORATION — The SciBooNE experiment is designed to measure neutrino cross sections on carbon near one GeV, which is important for future neutrino oscillation experiments. This talk focuses on a measurement of the charged current single charged pion production cross section in SciBooNE. If the final state pion is not observed, the event looks like a charged current quasi-elastic interaction. Hence, this interaction mode is the main background to muon neutrino disappearance measurements. The experiment uses a fully active, fine segmented scintillator tracking detector which is called SciBar. Unlike a water Cherenkov detector, the fine granularity of the SciBar detector allows us to detect all charged particles from the vertex. In addition, SciBooNE has the ability to separate the final state pions from protons using dE/dx information. We have been taking data since June 2007. Preliminary results of the analysis on the SciBooNE neutrino data will be presented in this talk.

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