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Electron and Gamma Identification for the measurement of the neutral pion cross section in SciBooNE. YOSHINORI KURIMOTO, Kyoto Univ., SCIBOONE COLLABORATION — The SciBooNE experiment is designed to measure neutrino cross sections on carbon in the one GeV region using the Booster Neutrino beam at Fermilab. Neutral pion production is important for future neutrino oscillation experiments, as it is one of the main backgrounds in electron neutrino appearance searches. Because the gamma ray from the neutral pion could be misidentified as an electron and mimic an electron neutrino interaction. It is possible to identify the electron and gamma with the fully active scintillator detector (SciBar) and the spaghetti calorimeter (Electron Cathcher). In this talk, I would like to show the performance of the identification of gamma rays using dE/dx and the track shape information in SciBar.

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