

Abstract Submitted
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Analysis of Neutral Current π^0 Events at MiniBooNE COLIN ANDERSON, Yale University, MINIBOONE COLLABORATION — The current generation of neutrino oscillation experiments, such as the MiniBooNE electron neutrino appearance search, require excellent understanding of backgrounds from neutral current π^0 interactions. The electromagnetic signature of these events mimics that of charged current electron neutrino interactions, producing misidentified signal. This background will continue to be an important consideration for future long baseline electron (anti)neutrino appearance searches. The MiniBooNE experiment has collected the largest sample of neutrino interactions at ~ 1 GeV and antineutrino interactions overall to date, providing a wealth of data for neutral current π^0 production measurements. In this talk the current results of the neutral current π^0 analysis in both neutrino and antineutrino running will be presented.

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