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**CC $\pi^0$  events at MiniBooNE** LAURA JEANTY, Yale University, MINIBOONE COLLABORATION — Charged current neutral pion events are the fourth largest exclusive sample of neutrino interactions at MiniBooNE, constituting about 4% of total neutrino interactions. The study of this sample is interesting in several respects. First, at MiniBooNE energies ( $\sim 1\text{GeV}$ ) the cross section is known with only modest precision. Second, there is no coherent cross-section in this channel, and therefore the low  $Q^2$  behavior differs from that of the  $\text{CC}\pi^+$  channel. Finally, if one wants to use  $\text{CC}\pi^+$  events for  $\nu_e$  appearance studies,  $\text{CC}\pi^0$  events are a large background. The study of this data sample in MiniBooNE is complicated by the fact that a full kinematic reconstruction requires simultaneously reconstructing three Cherenkov rings. We will report on the recent progress in the reconstruction and study of these events.

- Prefer Oral Session  
 Prefer Poster Session

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