

Pi0 Reconstruction in Neutral Current Events in MINERvA

Thursday, 14 June 2012 10:45 (15 minutes)

MINERvA is a neutrino experiment located at Fermilab. The main goal of the experiment is to study neutrino interactions using different targets and to measure differential neutrino cross sections. In this talk we concentrate on neutral pion reconstruction in the MINERvA experiment. We will show the present status of our energy, vertex and invariant mass reconstruction. This study is of vital importance to our understanding of NC neutrino interactions with a neutral pion in the final state. Most of the time only two photons can be observed with no observable tracks at the production vertex.

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