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Hadron spectroscopy and exotics (experiment and theory)
Experiment: E01-017
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Meson spectroscopy in photo-production at CLAS

Mina Nozar for the clas collaboration

Abstract

Photo-production of mesons which decay via multiple lighter meson emission, eg. $\pi\pi\pi$ and $KK\pi$ is investigated in the CLAS experiment E01-017 at Jefferson Lab. The focus of the experiment is to study mesons in the 1-2 GeV mass range, using a PWA technique. Both charged and neutral final states are accessible to CLAS. A tagged photon beam of 4.8-5.2 GeV, produced through bremsstrahlung radiation from a 5.7 GeV electron beam at CEBAF, was incident on an 18 cm lH_2 target. The data collected during August-September 2001 have been fully reconstructed. The general characteristics of the data for various 3 body final states, as well as some preliminary PWA results on the $\pi\pi$ system will be presented at this meeting.

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