

# THE PHOTOPRODUCTION OF STRANGE MESONS IN $\gamma p \rightarrow \Lambda K^+ \pi^+ \pi^-$ WITH CLAS AT JEFFERSON LAB

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The  $\gamma p \rightarrow \Lambda K^+ \pi^+ \pi^-$  reaction provides an opportunity to study the photoproduction of excited strange mesons in the  $K^+ \pi^+ \pi^-$  system using the g12 experiment dataset at Jefferson Lab. The g12 experiment used the CEBAF Large Acceptance Spectrometer (CLAS) at Jefferson Lab with a liquid hydrogen target and a 4-5.5 tagged photon beam, producing over 26 billion events of different topologies. The  $\Lambda$  in this reaction is identified via the  $p\pi^-$  decay mode. Studies indicate two dominating decay modes in the  $K^+ \pi^+ \pi^-$  system: the  $K^* \pi^+$  mode and the  $K^+ \rho$  mode. Studies of the angular distributions and dynamical features are being performed. Preliminary results of features of the data will be presented.