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Search for Exotic Mesons in $\gamma p \rightarrow \Delta^{++}\pi^+\pi^-\pi^-$ with CLAS at Jefferson Lab ARISTEIDIS TSARIS, Florida State University — Apart from the mesons that the constituent quark model predicts, QCD allows for additional states beyond the $q\bar{q}$ system. By studying the following reaction $\gamma p \rightarrow \Delta^{++}\pi^+\pi^-\pi^-$ we are analyzing a large data set of three charged pion system. An event selection has been made to this data set in order to search for the spin-parity exotic $\pi_1(1600)$ meson. Those events will be subject to PWA in search for this exotic meson. The experiment took place at Jefferson Lab using the CLAS spectrometer, a liquid hydrogen target was used and a tagged photon beam in a range of 4.4 – 5.5 GeV. Preliminary results will be shown, describing the data quality, kinematics and Monte Carlo simulation of the reaction.

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