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Study of $a_0(980)$ and $a_2(1320)$ in $\gamma p \rightarrow \eta\pi^0 p$ at GlueX LAWRENCE NG, Florida State University, GLUEX COLLABORATION — The GlueX experiment at Jefferson Lab is searching for hybrid mesons in the light meson spectrum using a 9 GeV photon beam on a liquid hydrogen target. The lightest exotic hybrid meson, the π_1 , has been previously observed by other experiments as a broad enhancement peaking around 1.4 GeV in the $\eta\pi$ channel. Two strong resonances populate the observed $\eta\pi^0$ spectrum with well known parameters and decay channels, namely the $a_0(980)$ and $a_2(1320)$ mesons. Therefore, studying these mesons are important in extracting and understanding results related to the π_1 . A study of the features in the mass range of the $a_0(980)$ and $a_2(1320)$ mesons is presented where the $\eta\pi^0$ final state decays into 4γ .

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