

Abstract Submitted
for the APS April Meeting of
The American Physical Society

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Background study and preliminary amplitude analysis results for $\gamma p \rightarrow \eta' \pi^0 p$ at GlueX RUPESH DOTEI, Florida International University — GlueX experiment at Hall-D in Jefferson Lab uses tagged photon beam with linear polarization peaking around 9 GeV on a liquid hydrogen target to study the spectrum of conventional mesons and search hybrid mesons. The spectrometer is designed to have an almost 4π acceptance and good efficiency especially suited to study multi particle final states in both charged and neutral mode. This talk will report on the analysis of $\gamma p \rightarrow \eta' \pi^0 p$ focusing on the background systematics underneath η' signal and preliminary results from amplitude analysis of $\eta' \pi^0$ invariant mass.



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Date submitted: January 5, 2021

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