

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

Sorting Category:

Background study and preliminary amplitude analysis results for $\gamma p \rightarrow \eta' \pi^0 p$ at GlueX RUPESH DOTEL, Florida International University — The GlueX experiment at Hall-D in Jefferson Lab uses a tagged photon beam with linear polarization peaking around 9 GeV on a liquid hydrogen target to study the spectrum of conventional mesons and search for hybrid exotic 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 modes. This talk will report on the analysis of $\gamma p \rightarrow \eta' \pi^0 p$ focusing on the background systematics underneath the η' signal and preliminary results from amplitude analysis of the $\eta' \pi^0$ invariant mass spectrum.

☒ Prefer Oral Session
☐ Prefer Poster Session

Rupesh Dotel
rdote001@fiu.edu
Florida International University

Date submitted: January 6, 2021

Electronic form version 1.2