

Abstract Submitted
for the DNP17 Meeting of
The American Physical Society

Analysis of ϕ Spin Density Matrix Elements at the GlueX Experiment¹ ALEXANDER BARNES², Carnegie Mellon Univ, GLUEX COLLABORATION — The analysis of the reaction $\gamma, p \rightarrow \phi, p$, where $\phi(1020)$ decays into K^+K^- , is discussed. The preliminary measurement of the ϕ spin density matrix elements are shown and compared with past experimental data. This analysis is sensitive to detector acceptances and provides a high-level calibration for GlueX. Additionally, these data test details of s-channel helicity conservation, and they complement other GlueX analyses on the ρ and ω .

¹This work is supported by the U.S. National Science Foundation under grant 1508238.

²The work presented is a continuation of the author's doctoral research at the University of Connecticut.

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Date submitted: 29 Jun 2017

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