Analysis of $\phi$ Spin Density Matrix Elements at the GlueX Experiment$^1$ ALEXANDER BARNES$^2$, 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 $\phi$ 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 $\rho$ and $\omega$.

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