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\(\phi(1020)\) Photoproduction on the Neutron

\footnote{1}{ANNA MICHERDZINSKA, BARRY BERMAN, The George Washington University, CLAS COLLABORATION — The mechanism of \(\phi\) photoproduction on the nucleon is not yet well understood. In order to differentiate between the various mechanisms proposed for \(\phi\) photoproduction, data for both differential cross sections and spin observables are needed. All existing experimental data come from \(\phi\) photoproduction on the proton, and there is only one published result currently available using a linearly polarized photon beam. There are no experimental results at all for \(\phi\) photoproduction on the neutron. Our high-statistics and large-kinematic-coverage g13 experiment, using the CLAS at Jefferson Lab, where both linearly and circularly polarized photons were incident on a deuterium target, can provide such data. We are analyzing these data to extract angular distributions for the \(\gamma + n \rightarrow K^+K^- + n\) reaction channel. An update on the analysis of these data will be presented.

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ANNA MICHERDZINSKA
The George Washington University

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