Abstract Submitted
for the DNP19 Meeting of
The American Physical Society

Analysis of K^*K states photoproduced from the proton SEBASTIAN COLE, Arizona State University, GLUEX COLLABORATION — No comprehensive theoretical description of hadronic matter can be achieved without a solid knowledge of the excited meson states. Of particular interest are the "exotic" states that can not be described by the constituent quark model. The meson spectrum decaying into K^*K may contain such an exotic in the form of a hybrid-meson state, where a gluon has been promoted to being a real constituent. However, while the meson spectrum decaying into K^*K may prove very useful in understanding hadronic matter, that spectrum has not been fully explored. Jefferson Lab data from the GlueX collaboration for the $\gamma p \to pK^*K$ reactions have been taken using a linearly polarized photon beam with energies of about 9 GeV at the coherent edge. Preliminary results of the K^*K meson spectrum will be presented.

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Date submitted: 01 Jul 2019 Electronic form version 1.4