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Early Results from GlueX[1]

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The GlueX experiment, located in Jefferson Lab's Hall D, provides a unique capability to search for hybrid mesons in photoproduction, utilizing a high-energy, linearly polarized photon beam. The initial phase of data taking, completed in 2018, provides unprecedented statistics to study the production mechanisms of known hadrons as well as search for new states in the hadron spectrum, including those with gluonic degrees of freedom. Early results from this dataset will be presented, along with progress towards higher statistics datasets with enhanced particle identification to study mesons containing strange quarks.

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