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Latest results from the GlueX experiment¹

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The GlueX experiment aims to study the gluonic degrees of freedom in QCD by mapping the light meson spectrum with an emphasis on searching for and studying light hybrid mesons. A tagged, linearly-polarized 9 GeV photon beam is incident on a hydrogen target contained within a hermetic detector with near-complete neutral and charged particle coverage. In Spring of 2016 the experiment completed its commissioning and took its first substantial data in the design configuration. This data set already represents a significant increase in statistics for polarized photoproduction in this energy regime. The experiment will be introduced, ongoing data analysis will be summarized and some preliminary results presented.

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