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First Physics Results from the GlueX Experiment

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The goal of the GlueX experiment is to carry out a definitive mapping of states in the light meson sector. The primary search is focused on exotic hybrid mesons as evidence of gluonic excitations, in an effort to understand the phenomenon of confinement in Quantum Chromo Dynamics. The experiment, housed in the Hall-D facility at Jefferson Lab, employs linearly polarized photons in the 8-9 GeV range and is now in its initial physics data taking phase. The key features of this compelling physics program will be presented with emphasis on the first results from the beam asymmetry for light pseudoscalar mesons.

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