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Status and Initial Performance of the GlueX DIRC

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The GlueX experiment is located in experimental Hall D at Jefferson Lab (JLab) and provides a unique capability to search for hybrid mesons in high-energy photoproduction, utilizing a ~ 9 GeV linearly polarized photon beam. Phase II of the GlueX experiment began in 2020 with the installation of a Detector of Internally Reflected Cherenkov light (DIRC), utilizing components from the decommissioned BaBar DIRC. This upgrade will enhance the particle identification capability of GlueX by providing clean π/K separation up to 3.7 GeV/c momentum in the forward region ($\theta < 11$ deg), which will allow the study of kaon final states with significantly higher efficiency and purity. In this contribution we will discuss the status and performance of the GlueX DIRC from this initial dataset.

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