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Commissioning of the Pair Spectrometer of the GlueX experiment

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GlueX is the new experiment in Hall D at Jefferson Lab, which main main goal is to search for mesons with exotic quantum numbers using a beam of linearly polarized photons. The main goal of the pair spectrometer is to determine the photon beam flux and to measure beam polarization. The spectrometer reconstructs the energy of a photon by detecting the electron/positron pair produced by the photon in a thin converter. The pair spectrometer was successfully operated during the commissioning run in spring 2016. We present the design of the pair spectrometer and performance results.

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