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DVCS experiment with the Neutral Particle Spectrometer in Hall C at Jefferson Lab

The study of the Generalized Parton Distributions (GPDs) is a focal point of hadron physics since they provide rich information about the inner structure of nucleons. Experimentally, measurements of the Compton Form Factors (CFFs) via the Deeply Virtual Compton Scattering (DVCS) process is the simplest approach to access GPDs.
The DVCS experiment in Hall C at the Jefferson Lab was conducted in 2023 and 2024 using an electron beam scattered off liquid hydrogen and deuterium targets. The well-established High Momentum Spectrometer detected the scattered electrons, while the newly installed Neutral Particle Spectrometer captured the emitted photons with high energy resolution. Furthermore, the refined offline calibration of these detectors was performed to achieve a high-precision measurement of the DVCS channel. In this talk, I will present our experimental configuration and the status of the data analysis.

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