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The DVCS program in Hall A at Jefferson Lab

The DVCS in Hall A/JLab experiments aim at providing data relevant to the “3-D structure of the nucleon” exploration by measuring precise absolute cross-sections in the Deep Exclusive domain. Deeply Virtual Compton Scattering off the nucleon ($\gamma^*N \rightarrow \gamma N$) is measured; it is the simplest process which is sensitive to the Generalized Parton Distribution functions. The DVCS in Hall A program is articulated in three steps. The first generation of experiments showed the importance of precise measurement of absolute cross-section. The second generation of experiments, recently published, shows an intriguing sensitivity to gluons. And the third generation of experiments (data to be taken recently with the 12 GeV beam at JLab) will provide measurements over an extended kinematic range. Exclusive neutral pion production is also measured. In this talk, I will review the status of the DVCS in Hall A program.

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