

Abstract Submitted
for the DNP19 Meeting of
The American Physical Society

Charged dihadron beam-spin asymmetries from CLAS12¹ TIMOTHY HAYWARD, The College of William and Mary, THE CLAS COLLABORATION COLLABORATION — Azimuthal correlations in the production of hadron pairs in semi-inclusive deep-inelastic scattering provide rich information on nucleon structure. The additional degree of freedom present in the two hadron final state allows for studies of correlations in the hadronization process, which can access novel fragmentation functions not accessible in single hadron production. Consequently, several PDFs such as the higher-twist collinear PDF $e(x)$ can be extracted. We present preliminary charged pion beam-spin asymmetries sensitive to $e(x)$ from a subset of the data taken in 2018 with the CLAS12 detector at Jefferson Lab. The data were taken with a 10.6 GeV polarized electron beam and an unpolarized liquid-hydrogen target. The large kinematic acceptance and sample size allows for a multidimensional analysis in Bjorken x , Q^2 , z and the invariant mass of the hadron pair.

¹This research was supported by DOE grant DE-FG02-96ER41003.

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Date submitted: 11 Jul 2019

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