

Abstract Submitted
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Measurement of the Target Single Spin Asymmetry A_y^n in the Inclusive DIS $n^\uparrow(e,e')$ Reaction from a Vertically Polarized ^3He Target
JOSEPH KATICH, College of William and Mary — We have recently measured the target SSA A_y^n in the inclusive DIS $n^\uparrow(e,e')$ reaction using a vertically Polarized ^3He Target. The measurement was performed parasitically during Jefferson Lab Hall A Experiment E06-010 from October 2008 to February 2009, using 6 GeV electron beam scattering on a 40 cm polarized ^3He target. The goal of the experiment was to improve the upper limit of A_y^n by two orders of magnitude compared with the SLAC proton experiment performed 35 years ago. A non-zero result would be a sign of chiral symmetry breaking that is beyond the leading twist QCD picture of DIS. Analysis progress will be reported.

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