

Abstract Submitted
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Results from E07-013: Target Normal Single-Spin Asymmetry in Inclusive DIS TIMOTHY HOLMSTROM, Longwood University, JEFFERSON LAB HALL A POLARIZED 3HE COLLABORATION — The target normal spin asymmetry A_y in deep inelastic scattering is predicted to be exactly zero in the Born approximation. Recent theoretical calculations that assume two photon exchange with one quark give asymmetries of order 10^{-4} , while calculations that assume the two photons couple to different quarks give asymmetries of order 10^{-2} . The first measurement of this asymmetry on the neutron was made in Hall A at Jefferson Lab (E07-013) by the polarized ^3He collaboration using an inclusive deep-inelastic $n^\uparrow(e, e')$ reaction with a vertically polarized ^3He target and a 5.8 GeV electron beam. Results of this measurement will be presented and interpretations of the result will be discussed.

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