

Abstract Submitted  
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**Performance of the BigBite Spectrometer during the Neutron Transversity Experiment in Hall-A** KALYAN ALLADA, University of Kentucky, JEFFERSON LAB HALL-A COLLABORATION, JEFFERSON LAB E06-010 COLLABORATION — The Hall-A E06-010 collaboration at Jefferson Lab recently measured the neutron target single spin asymmetry(SSA) in the semi-inclusive deep inelastic  ${}^3\text{He}^\uparrow(e, e'\pi^{+/-})X$  reactions with a transversely polarized  ${}^3\text{He}$  target. A high-resolution spectrometer was used to detect pions in coincidence with the scattered electrons detected in the large acceptance BigBite spectrometer. The kinematical range,  $x = 0.13 \sim 0.41$ , at  $Q^2 = 1.31 \sim 3.10 \text{ (GeV/c)}^2$ , focuses on the valence quark region. SSA data from this experiment will provide important information to extract the quark transversity distribution in semi-inclusive deep inelastic scattering. In this talk the performance of the BigBite spectrometer and trigger setup will be presented along with the progress on the data analysis.

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