

Abstract Submitted
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Preliminary Proton Spin Asymmetry Results from SANE JAMES
MAXWELL, Univ. of Virginia, SANE COLLABORATION — The Spin Asymmetries of the Nucleon Experiment (SANE) is a measurement of parallel and near-perpendicular double spin asymmetries in an inclusive electron scattering experiment, with the aim of calculating the spin asymmetry of the proton A_p^1 and spin structure function g_p^2 . Using Thomas Jefferson National Accelerator Facility's polarized electron beam and the University of Virginia's polarized frozen ammonia ($^{14}\text{NH}_3$) target in Hall C, the experiment ran in 2009, collecting data in a Q^2 region from 2.5 to 6.5 GeV^2 in a Bjorken x region of 0.3 to 0.8. Particle detection was accomplished using the Big Electron Telescope Array (BETA), a novel non-magnetic detector array with a 194 msr acceptance. This talk will address the progress of the analysis toward the calculation of the proton spin asymmetry and structure functions, including calibration of the BETA detectors, event selection, and preliminary results.

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