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The E1039 drift chamber Cosmic Ray Commissioning[1] YVES NGENZI , Abilene Christian University , SPINQUEST COLLABORATION COLLABORATION — SpinQuest/E1039 is a fixed-target Drell-Yan experiment using the Main Injector beam at Fermilab, in the NM4 hall. It follows up on the work of the Nusea/E866 and SeaQuest/E906 experiments at Fermilab that sought to measure the d/u ratio on the nucleon as a function of Bjorken-x. By using transversely polarized targets of NH3 and ND3,SpinQuest seeks to measure the Sivers asymmetry of u bar and d bar quarks in the nucleon; a novel measurement aimed at discovering if the light sea quarks contribute to the intrinsic spin of the nucleon via orbital angular momentum. The E1039 Drift Chamber Cosmic Ray Commissioning will be discussed. Cosmic ray datasets were used to understand noise issues and to set nominal HV settings and thresholds for later beam runs. In addition to that, noise was a problem in drift chamber. Therefore, to reduce readout noise we studied the effect of adding ferrite cores to different readout cables; the result of adding ferrite will also be discussed.

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