

Abstract Submitted
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HAPPEX III Instrumentation and Systematic Errors RUPESH SILWAL, University of Virginia, HAPPEX III COLLABORATION — HAPPEX III measures the parity-violating asymmetry in the elastic scattering of electrons from protons at an average Q^2 of $0.62 GeV^2$. A linear combination of strange-quark vector form factors $G_E^S + 0.53G_M^S$ is extracted from this measurement. The corrections to this measurement and associated bounds on systematic errors are discussed in detail. Corrections include rescattering inside the spectrometers, aluminum contamination, detector non-linearities, and radiative and finite acceptance corrections in Q^2 measurements.

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