

Abstract Submitted
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HAPPEX-III results: measurement of nucleon strange form factors at high Q^2 RUPESH SILWAL, University of Virginia, HAPPEX-III COLLABORATION — The bare mass of the three valence quarks only makes $\sim 1\%$ of the proton mass, the rest is gluons and a sea of quarks and anti-quarks dominated by the light up, down and strange quark flavors. From a naive interpretation of the quark model, one might expect that the electromagnetic form factors are determined only by the distribution of valence quarks. But, existing data suggesting a non-zero strange quark contribution to these form factors at high Q^2 has been a topic of great interest. Recent results from HAPPEX-III collaboration have significantly clarified the role of intrinsic strangeness in the nucleon vector form factors; these results will be presented and discussed.

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