

Documents

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Strangeness in nucleon

(2008) *AIP Conference Proceedings*, 1006, pp. 53-57.

Abstract

Results of the parity violating asymmetry APV for longitudinally polarized 3 GeV electrons from both hydrogen and helium cryogenic targets, at small scattering angle $\theta_{lab} \sim 6^\circ$ are presented. The asymmetry for hydrogen is a function of a linear combination of $G_E S$ and $G_M S$, the strange quark contributions to the electric and magnetic form factors of the nucleon respectively, and that for 4He is a function solely of $G_E S$. The combination of the two results therefore allows $G_E S$ and $G_M S$ to be separately determined. © 2008 American Institute of Physics.

2-s2.0-43749088862

Document Type: Conference Paper

Publication Stage: Final

Source: Scopus