

Abstract
References

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**Polarized photoproduction from nuclear targets with arbitrary spin and relation to deep inelastic scattering**Pervez Hoodbhoy^{a,b}^a Center for Theoretical Physics, Laboratory for Nuclear Science and Department of Physics, Massachusetts Institute of Technology, Cambridge, MA 02139, USA^b World Laboratory Center for High Energy Physics and Cosmology Department of Physics, Quaid-e-Azam University, Islamabad, Pakistan

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Abstract

Inclusive photo-production from polarized targets of arbitrary spin is analyzed by using multipoles. The Drell-Hearn-Gerasimov sum rule, which was originally formulated for spin- $\frac{1}{2}$ targets, is generalized to all spins and multipoles, and shown to have some interesting consequences. Measurements to test the new rules, or to derive nuclear structure information from them, could be incorporated into existing plans at electron accelerator facilities. Finally, the possible relevance of these generalized sum rules to sum rules measurable in polarized lepton — polarized target deep inelastic inclusive scattering is discussed.

There are no figures or tables for this document.

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