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The tensor and the scalar charges of the nucleon from hadron phenomenology

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Content

We evaluate the impact of recent developments in hadron phenomenology on constraining the electroweak effective theory Lagrangian beyond the standard model. We focus, in particular, on the scalar and tensor components which can be measured in precision neutron beta decay. We show how a class of new observables, the chiral-odd generalized parton distributions, along with the extraction of the transversity structure function from dihadron electroproduction, can provide experimental constraints on the tensor charge. Direct experimental extractions if sufficiently precise, provide a more stringent constraint than lattice QCD calculations.

Session

Proton structure, small and large x physics

Primary author(s) : Dr. COURTOY, Aurore (IFUNAM)

Presenter(s) : Dr. COURTOY, Aurore (CINVESTAV)

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