

XVth Quark Confinement and the Hadron Spectrum



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Nucleon charges from Lattice QCD and their Implications for BSM Physics

Friday 23 August 2024 15:30 (30 minutes)

This talk will summarize the calculations of the axial, scalar and tensor charges of the nucleons using lattice QCD. Results on the pion-nucleon sigma term, coupling to dark matter and Higgs-like interactions, the contribution of quark spin to the nucleon spin, contribution of quark electric dipole moment to the neutron dipole moment and transversity measurements will be presented. The implications of these results for standard model and BSM physics will be discussed.

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