

International Workshop on Grand Unified Theories: Current Status and Future Prospects



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Nucleon sigma term from lattice QCD

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There has been renewed interest in the nucleon sigma term - the scalar form factor of the nucleon at zero recoil - since it determines the dark matter reaction rate with nucleon through the t-channel Higgs boson exchange. Despite its importance and its long history of theoretical studies, there are still substantial uncertainties. We present our recent studies of the nucleon sigma term based on the JLQCD project of $N_f=2$ unquenched lattice QCD simulation with dynamical overlap fermion.

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