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Light cone distribution amplitude for the baryon on lattice QCD

The light-cone distribution amplitudes (LCDAs) are probability amplitudess for the longitudinal momentum fractions of partons in the leading Fock states of hadrons. Within Quantum Chromodynamics(QCD), the non-perturbative LCDAs play a pivotal role for the description of exclusive processes. In this report, we will give an introduction of the progress for calculatiing baryon LCDAs on lattice, mainly based on the large momentum effective theory (LaMET). The numerical simulation is based on the stout smeared-clover fermion action ensembles generated by the CLQCD collaboration.

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