

2024 Meeting on Lattice Parton Physics from Large Momentum Effective Theory (LaMET2024)



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Evolution of parton pseudo-distributions

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Critical to the understanding of parton structure is the scale dependence of the distributions. By compared data at different scales one can test the validity of the factorization approximation. Typically the universal short distance scale dependence of the object is calculated in perturbation theory. We propose a method for calculating the scale dependence non-perturbatively from lattice QCD data. With this approach, the range of universal scaling can be studied without the limitations of perturbation theory at lower energy scales.

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