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Parton pseudo-Distributions and their evolution

Tuesday, 28 May 2024 12:00 (30 minutes)

The calculation of parton distributions of the nucleon is a requisite for understanding hadronic cross sections in terms of quarks and gluons. Over the last decade many calculations from first principles lattice QCD have begun through matrix elements which can be factorized similarly to cross sections. In this talk, I will highlight our calculations using the pseudo-PDF approach and its relation to the standard PDF. In this framework, lattice data can be combined with experimental data to obtain higher quality PDFs than either individually. Furthermore we can study the scale dependence to non-perturbatively learn the evolution of the parton pseudo-distributions.

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