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Gluon Structure from Lattice QCD

Wednesday, August 10, 2022 9:50 AM (30 minutes)

We review progress on the lattice QCD calculation of parton structure in the nucleon, specifically that of the gluon. The structure of a hadron is typically described by x dependent distributions, most notably the simplest case of the parton distribution function (PDF). Boosted hadronic matrix elements of operators, which are calculable in lattice QCD, can be related to the PDF indirectly. This relationship is not uniquely defined, both theoretically from how one organizes power corrections and practically due to limitations of lattice QCD calculations. I will present the latest lattice QCD calculations of these matrix elements and describe the practical approaches for relating that data to PDFs.

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