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Large-nf contributions to the four-loop splitting functions in QCD

Thursday, 6 April 2017 11:00 (17 minutes)

We have computed the fourth-order nf2 contributions to all three non-singlet quark–quark splitting functions and their four nf3 flavour-singlet counterparts for the evolution of the parton distributions of hadrons in perturbative QCD with nf effectively massless quark flavours. In this talk we give an overview of the method used to reconstruct the analytic form of these functions from their Mellin moments, computed by the recently-developed FORCER package.

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