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Mixed QCD-QED corrections to DGLAP equations

Saturday 6 August 2016 18:00 (2 hours)

We study the mixed effect of QCD and QED corrections to the evolution of parton distributions functions (PDF). The Altarelli-Parisi splitting functions are extended to one order higher in QED, reaching $calO(\alpha\alpha_S)$ accuracy. This also involves extending DGLAP equations to include charge separation effects which are ignored for pure QCD corrections.

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