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Mixed QCD-QED corrections to the AP splitting functions

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In this talk, we review recent results on the computation
of electroweak (EW) corrections to the Altarelli-Parisi (AP) kernels. In
particular, we consider QED effects, and we obtain the O($\alpha\,\alpha_S$) and O(α^2) corrections to the double collinear splitting
functions. For this purpose, we analyse mixed QCD-QED
effects in the DGLAP evolution equations and their implications in the
evolution of PDFs. The results presented here are a crucial ingredient to
perform a full NLO QCD-QED analysis of PDF, as well as to compute hadronic
cross-sections with a full NNLO QCD-QED precision.

Summary

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