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397Towards Colour Flow Evolution at Two loops

Thursday, September 2, 2021 6:30 PM (15 minutes)

In the presentation I intend to give an overview of the one-loop/one-emission and two-loop contributions required for soft gluon evolution and the resummation of non-global logarithms at the next logarithmic order. I will present the general structure of the soft anomalous dimension matrix in the colour-flow basis and highlight the importance of three-parton correlations which appear at two-loop order beyond the usual dipole picture. Using the Feynman tree theorem a flexible formulation of the loop integrals in terms of the emission's phase space can be found in an algorithmic setup.

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