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Splitting amplitudes at NLO

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Summary

QCD amplitudes exhibits singularities when particles become collinear. To compute physical quantities it is mandatory to cancel this kind of divergencies. Some factorization theorems guarantee that it is possible to isolate collinear behaviour inside new objects called splitting matrices, which can be calculated in the context of perturbation theory. In this talk we are going to introduce splitting matrices and focus in some technical details associated with their calculation at NLO. We are going to discuss the double-collinear limit and explain some relevant properties of the multiple-collinear limit.

Presenter: SBORLINI, German