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Cusp anomalous dimension with massive lines through four loops in QCD

Tuesday 21 May 2024 14:30 (30 minutes)

I present results for the cusp anomalous dimension in QCD at higher orders. I discuss a general method for determining the massive cusp anomalous dimension to a very high degree of accuracy using its asymptotic behavior at small and large quark velocities, and I present explicit calculations through four loops. Separate results for different values of the number of flavors and for distinct color structures are also given.

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