

# Matter dependence of the four-loop cusp anomalous dimension

*Friday, September 13, 2019 10:00 AM (25 minutes)*

The cusp anomalous dimension is a universal and ubiquitous quantity in QCD. It governs the IR structure of scattering amplitudes and is the key ingredient to (Sudakov) resummation for high-energy collider processes. I will report on recent analytic results on the matter dependence of the cusp anomalous dimension at four loops and discuss the calculational methods used to obtain them.

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