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Duality Violations and Tau decay

Quark-hadron Duality Violations (DVs) refer to the inapplicability of the Operator Product Expansion on the Minkowski axis, where the hadronic spectral functions are measured. In previous work, it was shown that DVs have a significant impact on the value of α_s obtained from hadronic τ decays. I will discuss the origin of DVs in QCD, leading to an analytic form for their energy dependence.

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