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Perturbative QCD around 2 GeV

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We will discuss issues related to the use of perturbative QCD at relatively low energies. The theoretical problems that arise are often fundamental and touch, for instance, the very nature of the perturbative expansion. We have in mind applications to hadronic tau decays, which remains an important source of information about the strong coupling, α_s . We will discuss renormalon singularities, scheme variations, and a novel approach to the violations of quark-hadron duality – which go beyond perturbation theory. The impact on the precise extraction of α_s will be emphasised.

Primary author: BOITO, Diogo (Universidade de São Paulo)

Presenter: BOITO, Diogo (Universidade de São Paulo)

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