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The five-loop beta function in QCD

Friday, 7 July 2017 11:43 (13 minutes)

In this talk I will present a new result for the beta function in QCD, valid for a general gauge group. I will briefly summarise the methods which were used to obtain this result and explain its impact on low energy strong coupling extractions and precision observables at NNNNLO in perturbative QCD, such as the Higgs decay width and the total cross section for e+ e- to Hadrons.

Experimental Collaboration

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