## Approximate N3LO: Higgs and more (15+5min)

Wednesday 2 September 2015 18:10 (20 minutes)

I will describe how approximate higher order results can be obtained from known asymptotic regimes, in turn determined by all-order resummed expressions. Specifically, threshold (large-x) resummation combined with high-energy (small-x) resummation can lead to reliable determinations of inclusive N3LO cross sections such as those of Higgs,  $t\bar{t}$  or Drell-Yan productions. The method is validated against known lower-order results, and includes an estimate of the uncertainty associated with the approximation itself.

Primary author: BONVINI, Marco (University of Oxford)Presenter: BONVINI, Marco (University of Oxford)Session Classification: Hard QCD

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