

Transverse momentum resummation for diphotons at LHC

Thursday 8 September 2016 14:15 (30 minutes)

After briefly introducing the b-space transverse momentum (q_T) resummation formalism in the context of hadron collisions, I will show the latest predictions (at improved NNLO) for the q_T spectrum, and other spectra, of diphoton pairs at the LHC and compare them to the experimental results. Besides restoring the predictivity of the perturbative QCD prediction at low q_T , resummation improves the overall agreement of the theoretical prediction with the data. I will highlight some of the useful features of the employed formalism, such as its flexibility and universality.

Summary

Latest results for the predictions of the transverse momentum spectrum and related observables for diphotons at the LHC (obtained by using the b-space resummation formalism), plus comparison to data.

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