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Jets in pp at NNLO

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Summary

In this talk we present our recent progress towards the calculation of the full next-to-next-to-leading order (NNLO) QCD corrections to dijet production and related observables at hadron colliders. With preliminary results for gluonic jet production from gluon-gluon and quark-antiquark scattering we present the NNLO double-differential single jet inclusive cross section where jets are reconstructed using the anti-k_T jet algorithm. We show that the NNLO correction significantly reduces the scale uncertainty compared to next-to-leading order (NLO). A comparison with approximate results from threshold resummation is discussed and future phenomenological applications of NNLO predictions for jet collider data are addressed.

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