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Soft gluon effects in four parton hard-scattering processes

We consider soft-gluon effects in 2->2 parton scattering processes at hadron colliders. We focus on the one-particle inclusive cross section at high-transverse energies and we present the all-order resummation formula that controls the logarithmically enhanced perturbative QCD contributions in this kinematical region.

We compute the general structure of the logarithmically enhanced terms at next-to-leading order and, from there, we extract the perturbative coefficient that allows us to perform the resummation up to full next-to-leading logarithmic accuracy.

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