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## Intrinsic charm and photon production cross section

We present a comparative analysis of the non-perturbative intrinsic charm quark contribution in the proton, using the inclusive production of  $\gamma + c$ -jet in  $pp$  and  $p\bar{p}$  collisions and for the kinematic regions that are sensitive to this contribution. We discuss the  $Q^2$  evolution of intrinsic quark distributions and present a code that provide these distributions as a function of  $x$  and  $Q^2$  for any arbitrary momentum fraction. For the  $p\bar{p}$  collisions at the Tevatron, the results are compared with the recent experimental data of D0 at  $\sqrt{s} = 1.96$  TeV and also predictions for  $pp$  collisions at  $\sqrt{s} = 8$  TeV and  $\sqrt{s} = 13$  TeV for the LHC.

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