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The role of intrinsic charm in the proton via photon production in association with a charm quark

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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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