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On effects of multiple gluons in J/psi hadroproduction

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Prompt J/psi hadroduction is considered beyond the leading twist
two-gluon production mechanism. A contribution to the process is analysed in which the meson production is mediated by three-gluons, with two gluons coming from the target and one gluon from the projectile. Such contribution is enhanced at large energies due to large double gluon density at small x. This contribution is calculated within perturbative QCD, in the k_T factorisation approach and it is found to be significant correction to the leading twist cross-section at the energies of the Tevatron or the LHC. The results are given as differential pT-dependent cross-sections for J/psi polarisation components.

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