

$\Upsilon + J/\psi$ and $J/\psi + J/\psi$ production at hadron colliders and double parton scattering

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We present the first complete study of Υ and prompt J/ψ production from single-parton scattering to the complete $\mathcal{O}(\alpha_s^6)$ for color singlet contribution and including all leading SPS contributions. We find that the effective cross section characterizing the importance of double-parton scatterings is $\sigma_{eff} \leq 8.2$ mb at 68% confidence level from the D0 measurement. At the same time, we also present $J/\psi + J/\psi$ production at hadron colliders.

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