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J/ψ production in hadron scattering: two parton showers contribution

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In this paper we discuss the inclusive J/ψ production in proton-proton collisions accompanied by production of two parton showers. We demonstrate that this mechanism gets dominant contribution from the region which can be theoretically described by CGC/Saturation approach. Numerically, it gives a substantial contribution to the J/ψ production, and is able to describe the experimentally observable shapes of the rapidity, momenta and multiplicity distributions. The latter fact provides a natural explanation of the experimentally observed enhancement of multiplicity distribution in J/ψ production.

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