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Saturation in Photoproduction Upsilon States at LHC Ultraperipheral Collisions

The Upsilon states (1S, 2S, and 3S) produced in exclusive photoproduction in ultraperipheral collisions at the LHC energies are investigated. Predictions in the theoretical framework of the color dipole formalism are presented for proton-proton, proton-nucleus, and nucleus-nucleus for Run 2 LHC energies. The rapidity and transverse momentum distribution are calculated and compared with experimental data available, including Ψ states. This work allows the analysis of the robustness and theoretical uncertainties in order to implement the description of the saturation phenomena.

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