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Transverse Momentum Distribution in Quarkonium Photoproduction in pp and AA Collisions at the LHC (15' + 5')

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It is investigated the exclusive production of quarkonium states in proton-proton and nucleus-nucleus collisions at the LHC employing the light-cone dipole formalism theoretical framework. We calculate the rapidity, and specially the transverse momentum distributions for J/Psi's and Upsilon's, and excited states. Our results are compared to recent experimental data (ALICE and LHCb), and predictions are done for the next LHC data taken in ultraperipheral collisions. The results are discussed in order to criticize the robustness of the formulation to express the effects of QCD at low-x for those systems.

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