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Excited quarkonia production in the light-front potential approach

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We start with an overview of the recent results on charmonia and bottomonia production in electro- and photoproduction processes. An emphasis will be given to the careful treatment of light-front wavefunctions of heavy quarkonia in the potential approach formulated in the color dipole picture. A significant role of spin effects and the D-wave component is found and quantified. Our light-front approach is then applied to the analysis of both the ground-state and excited quarkonia photoproduction observables in ultra peripheral proton-nucleus and nucleus-nucleus collisions and the results are confronted with the recent data from the LHC. Finally, we report on the first results on quarkonia hadroproduction in the light-front potential approach.

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