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Effects of saturation in high-multiplicity pp collisions

Parton distributions in the protons colliding with multiplicity much higher than the mean value, are biased to higher parton densities, leading to enhanced effects of saturation. This and the effect of mutual boosting of the saturation scale significantly increase the gluon density at small x , and correspondingly the production rate of J/ψ and p_T broadening, in good accord with data.

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