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Erratum: Forward di-jet production in p+Pb collisions in the small-x improved TMD factorization framework

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There was a mistake in the normalization of the histograms representing the differenial cross section as a function of the azimuthal angle between the jets: figure 3 left and figure 4 left in the original paper [1]. The corrected distributions are plotted in figure 1 and figure 2, respectively.

The mistake affects only the absolute predicted cross section. The current cross section is in agreement with earlier calculation [2], which was done within the simplified model ('HEF' in [1]) and similar (but not exactly the same) kinematic cuts.

The error does not affect any other distributions presented in the paper nor the conclusions.

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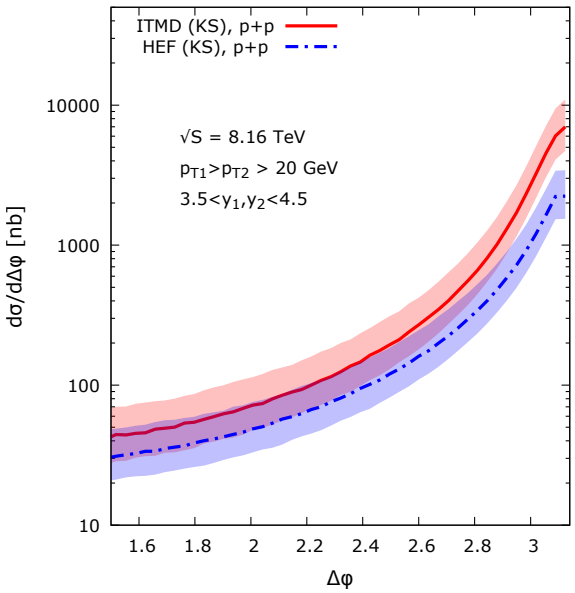

Figure 1. Differential cross section as a function of the azimuthal angle between the jets for p+p collisions, comparing the new ITMD approach with previously obtained HEF results. The plot replaces figure 3 left in [1].

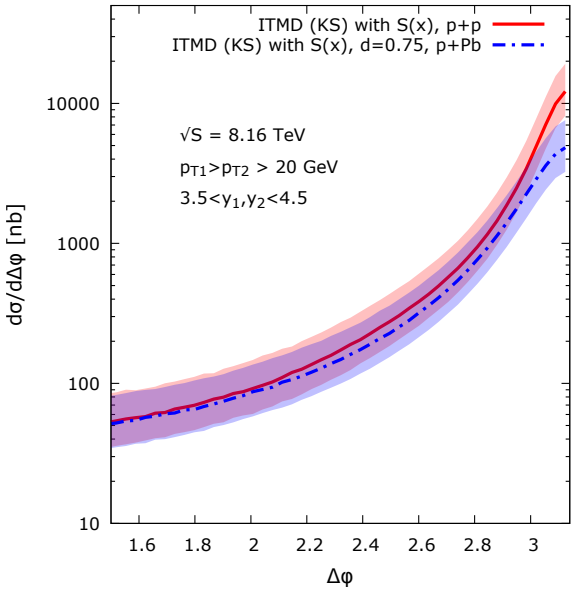

Figure 2. Differential cross section as a function of the azimuthal angle between the jets for p+p and p+Pb collisions (rescaled by the number of nucleons). The distributions are identical everywhere expect near $\Delta\phi \simeq \pi$, where saturation is the strongest. The plot replaces figure 4 left in [1].

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References

[1] A. van Hameren, P. Kotko, K. Kutak, C. Marquet, E. Petreska and S. Sapeta, *Forward di-jet production in p+Pb collisions in the small-x improved TMD factorization framework*, *JHEP* **12** (2016) 034 [arXiv:1607.03121] [INSPIRE].

[2] A. van Hameren, P. Kotko, K. Kutak, C. Marquet and S. Sapeta, *Saturation effects in forward-forward dijet production in p+Pb collisions*, *Phys. Rev.* **D 89** (2014) 094014 [arXiv:1402.5065] [INSPIRE].

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