## Production of one and two $car{c}$ pairs at LHC

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## **Summary**

We discuss charm production at LHC. The production of single  $c\bar{c}$  pairs is calculated in the  $k_t$ -factorization approach. We use several unintegrated gluon distributions from the literature. Some of them include effect of small-x staturation and fullfil Balitsky-Kovchegov evolution equation. The hadronization is included with the help of fragmentation functions found for the production of c ( $\bar{c}$ ) in  $e^+e^-$  collisions. Differential distributions for several charmed mesons will be presented and compared to recent results of the ALICE and LHCb collaborations. Some missing strength is identified. Different schemes of fragmentation are discussed. (...)

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