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Production of one and two $c\bar{c}$ pairs at LHC

Thursday, 13 September 2012 10:10 (20 minutes)

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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Session Classification: Progress in QCD (I)

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