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Based on the framework of color glass condensate, we studied the hadron multiplicity distribution at the LHC energies, The full next-to-leading order Balitsky-Kovchegov(BK) equation is solved numerically, which obtain the NLO unintegrated gluon distribution (UGD) function in the coordinate space. We also extend the parton distribution function and the fragmentation function to NLO. A full NLO CGC particle production model is established in this study. When we compare the model calculations with charged hadron multiplicity experimental data from LHC, the results show the full NLO CGC model can describe the data very well.

Summary

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