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Charged particle multiplicities in hard process

In this contribution, we explore the behavior of charged-particle pseudorapidity density in heavy ion collisions taking as a basis the results reported by the ALICE collaboration with regard to a more large range of the impact parameter. The main objective is to analyze the connexion of the total number of charged particles produced in Pb–Pb collisions in comparison with the p-p collisions at different cm - energies. The role of the hard process of the hard process to the total charged-particle multiplicity is evaluated by means of the PYTHIA code. The results of the calculations are compared with the experimental results above mentioned.

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