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The measurement of J/Ψ production as function of multiplicity in pp and p-pb collisions with ALICE

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The increase of hadronic production as a function of multiplicity in proton-proton and proton-lead collisions is considered as an interesting observable to study multi-parton interactions. The correlation between J/Ψ production and multiplicity has been studied in pp collisions at $\sqrt{s} = 7$ and 13 TeV and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV by ALICE. An increase of the relative J/Ψ yields with respect to the relative multiplicity has been observed.

In the present talk, results on the multiplicity dependence of the J/Ψ production in pp collisions at $\sqrt{s} = 2.76$ and 5.02 TeV, measured at forward rapidity, will be presented for the first time. Similar results for p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV at forward rapidity will also be shown. Results will be compared to the available ALICE measurements obtained in pp collisions at $\sqrt{s} = 7$ and 13 TeV and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV as well as with theoretical model predictions.

Topic:

Topic: Heavy Ion Collisions and Critical Phenomena

Summary

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