

D meson reference spectra in pp collisions at $\sqrt{s} = 2.76$ -TeV with ALICE

The ALICE experiment has the ability to measure D meson production in different colliding systems. Charm production in proton proton collisions is an important tool to test pQCD calculations in a new energy domain. Its spectrum in heavy ion interactions is influenced by the formation of hot and dense QCD matter.

A common procedure to study the characteristics and effects of this matter is to compare particle production in heavy ion and proton proton reactions.

Here we present a pQCD-based energy extrapolation of ALICE D meson pp measurements at $\sqrt{s} = 7$ -TeV to $\sqrt{s} = 2.76$ -TeV, as a reference for the PbPb studies at this energy. The status of the $D^0 \rightarrow K^- \pi^+$ analysis in pp collisions at $\sqrt{s} = 2.76$ -TeV will also be described.

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