

A data driven validation of the Pythia jet cross section in pp collisions at $\sqrt{s} = 2.76$ TeV

Studies of the inclusive jet production in Pb-Pb collisions at $\sqrt{s} = 2.76$ TeV and its possible modification by the hot and dense medium, require a comparison of the measured jet spectrum to that from pp collisions at the same center of mass energy. The goal of our study is to validate a reference spectrum obtained via Pythia simulations, using jet cross section measurements at the Tevatron and the LHC.

We present comparisons of data driven extrapolations and interpolations with the predictions from Pythia6, using the tune Perugia-0.

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Track Classification: Jets