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Asymptotic Analysis of the parton branching equation at LHC Energies

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Content

An asymptotic solution to the QCD parton branching equation is derived using the method of Laplace transformation and saddle point approximation. The distribution is applied to charged particle multiplicity distributions in proton-proton collisions at $\sqrt{s} = 0.9, 2.36$, and 7 TeV for $|\eta| < 0.5, 1.0, 1.5, 2.0, 2.4$, and 8 TeV for $|\eta| < 0.5, 1.0, 1.5$, as well as 13 TeV data for $|\eta| < 0.8$ and 2.5.

Session

Multiparticle correlations and fluctuations

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