MPI @ LHC 2013, Workshop on Multi-Parton Interactions at the LHC

Contribution ID: 55

Type: Talk

## Leading track and leading jet cross sections at small transverse momenta

Monday, 2 December 2013 17:35 (25 minutes)

The production yields of leading charged-particle jets and tracks in proton-proton collisions are measured at sqrt(s) = 8 TeV based on a data sample of 17.4 pb–1 collected with the CMS detector. The charged-particle jets (tracks) are measured in the pseudorapidity range |eta| < 2.0 (2.4) for transverse momenta pT > 1 (0.8) GeV. The yield distribution integrated over a given minimum transverse momentum pTmin, falls steeply with increasing pTmin, and provides information on the mechanism by which the underlying parton-parton cross sections are unitarized approaching the low-pT non-perturbative domain. Predictions obtained from various Monte Carlo event generators are compared to the measurements.

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Session Classification: MPI & Small-x

Track Classification: MPI & Small-x