



Contribution ID: 32

Type: **Oral presentation**

Leading track and leading jet cross sections at small transverse momenta

Wednesday, 30 April 2014 15:00 (20 minutes)

The production yields of leading charged-particle jets and tracks in proton-proton collisions are measured at $\sqrt{s} = 8$ TeV based with the CMS detector. The charged-particle jets (tracks) are measured in the pseudorapidity range $|\eta| < 1.9$ (2.4) for transverse momenta $p_T > 1$ (0.8) GeV. The yield distribution integrated over a given minimum transverse momentum p_{Tmin} , falls steeply with increasing p_{Tmin} , and provides information on the mechanism by which the underlying parton-parton cross sections are unitarized approaching the low- p_T non-perturbative domain. Predictions obtained from various Monte Carlo event generators are compared to the measurements.

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Session Classification: WG2: Small-x, Diffraction and Vector Mesons

Track Classification: WG2: Small-x, Diffraction and Vector Mesons