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# Measurement of the inclusive differential jet cross section in pp collisions at $s = 2.76$ TeV $\sqrt{s}$

ALICE Collaboration

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## Abstract

The ALICE Collaboration at the CERN Large Hadron Collider reports the first measurement of the inclusive differential jet cross section at mid-rapidity in pp collisions at  $s = 2.76$  TeV, with integrated luminosity of  $13.6 \text{ nb}^{-1}$ . Jets are measured over the transverse momentum range 20 to 125 GeV/c and are corrected to the particle level. Calculations based on Next-to-Leading Order perturbative QCD are in good agreement with the measurements. The ratio of inclusive jet cross sections for jet radii  $R = 0.2$  and

$R = 0.4$  is reported, and is also well reproduced by a Next-to-Leading Order perturbative

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