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Inclusive

 J/ψ production in pp collisions at

$$\sqrt{s} = 2.76\text{TeV} \quad \hat{\sim} \dagger$$

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Abstract

The ALICE Collaboration has measured inclusive

 J/ψ production in pp collisions at a center-of-mass energy $\sqrt{s} = 2.76\text{TeV}$ at the LHC. The results presented in this Letter refer to the rapidity ranges

$$|y| < 0.9 \text{ and}$$

 $2.5 < y < 4$ and have been obtained by measuring the electron and muon pair decay channels, respectively. The integrated luminosities for the two channels are

$$L_{\text{int}}^e = 1.1\text{nb}^{-1} \text{ and}$$

$$L_{\text{int}}^{\mu/4} = 19.9\text{nb}^{-1}, \text{ and the corresponding signal statistics are}$$

$$N_{J/\psi}^{e^+e^-} = 59 \pm 14 \text{ and}$$

$$N_{\tau/\mu}^{\mu/4+\mu/4} = 1364 \pm 53. \text{ We present}$$

$dN_{J/\psi}/dy$ for the two rapidity regions under study and, for the forward- y range, $d^2N_{J/\psi}/dy dp_t$ in the transverse momentum domain $0 < p_t < 8\text{GeV}/c$. The results are compared with previously published results at $\sqrt{s} = 7\text{TeV}$ and with theoretical calculations.



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