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The inclusive jet cross-section measurement at $\sqrt{s} = 200$ GeV p+p collisions at STAR XUAN LI, Temple University, STAR COLLABORATION — Inclusive jet and dijet measurements in polarized p+p collisions at $\sqrt{s} = 200$ and 500 GeV are an essential part of the STAR program to understand the internal structure of the proton. Inclusive jet production probes the integral of the gluon distribution over a certain range of x with a given jet transverse momentum. The jet cross-section measurement is one of the fundamental observables to test quantum chromodynamics (QCD). In addition to this, the inclusive jet cross-section measurement is a test of understanding the jet energy scale as well as trigger and detector efficiencies which are important to justify the use of inclusive jets in asymmetry measurements. We will present the status of the mid-rapidity ($|\eta| < 1$) inclusive jet cross-section analysis of 18.2 pb^{-1} of data sampled by STAR during the $\sqrt{s} = 200$ GeV RHIC run in 2009.

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