## Inclusive charged-jet production in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV measured by STAR

## STAR Collaboration

We report the measurement of inclusive charged-jet production in Au+Au collisions at  $\sqrt{s_{NN}} = 200$  GeV by the STAR experiment at RHIC. Jets are reconstructed with the anti-k<sub>T</sub> recombination algorithm with jet resolution parameter R = 0.2, 0.3, and 0.4 using charged tracks within the pseudo-rapidity  $|\eta| < 1$  and low transverse momentum constituent cut,  $p_T > 0.2$  GeV/c. The large background yield uncorrelated with the jet signal is suppressed by requiring a high- $p_T$  leading hadron in accepted jet candidates. The bias imposed by this requirement is assessed and the  $p_T$ -region in which this bias is small is identified. Inclusive charged-jet distributions are reported for  $p_T^{jet} < 25$  GeV/c in peripheral and  $p_T^{jet} < 30$  GeV/c in central Au+Au collisions, respectively. Charged-jet yield suppression is observed for central Au+Au collisions relative to that in both peripheral Au+Au and p+p collisions. These measurements are compared to inclusive hadron measurements in Au+Au collisions at RHIC and inclusive hadron and jet measurements in Pb+Pb collisions at the LHC, together with theoretical model calculations incorporating jet quenching.