

# Measurement of the forward-backward charge asymmetry in top quark production in

$pp$  collisions at  
 $\sqrt{s} = 1.96$  TeV

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We present measurements of the integrated forward-backward charge asymmetry in  $t\bar{t}$  production in  $pp$  collisions using data collected with the D0 detector at the Fermilab Tevatron collider, using both the lepton+jets and dilepton final states. We present the raw measurement as well as results obtained after correcting for acceptance and detector effects and present also measurements as a function of invariant mass of the  $t\bar{t}$  pair. We also investigate the dependence of the asymmetry on the total transverse momentum of the  $t\bar{t}$  pair.

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