

Abstract Submitted
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Measurement of The Top Quark Electric Charge JEONG KU LIM,
Korea University, D0 COLLABORATION — In the Standard Model, the decay of
the top quark: $t \rightarrow bW^+$ gives an electric charge of $2/3$ for the top quark. However
the decay $t \rightarrow \bar{b}W^+$ does not violate any fundamental laws and it predicts a top
quark charge of $4/3$. We provide a measurement of the electric charge of the top
quark using $t\bar{t}$ events in the lepton + 4 jets final state using events $4 fb^{-1}$ of D0
data.

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