Searches for *t* Quark

$I(J^P) = 0(\frac{1}{2}^+)$

Charge $= \frac{2}{3}\, e$ Top $= +1$

Mass $m >$ 62 GeV, CL = 95% (all decays)
Mass $m >$ 131 GeV, CL = 95% (assumes $t \to W b$ decay)
Mass $m = 174 \pm 10^{+13}_{-12}$ GeV (top candidate events)
Mass $m = 169^{+16}_{-18}{}^{+17}_{-20}$ GeV (Standard Model electroweak fit)

The first result is from a CDF $\Gamma(W)$ measurement; the second is from a D∅ direct search; the third is from a CDF observation of top candidate events. CDF observes a 2.8σ effect which is not sufficient to firmly establish the existence of top but which, if interpreted as top, yields the third result. The fourth result is from a Standard Model electroweak fit to Z, W, and νN data not including direct m_t measurements. The central value assumes m_H = 300 GeV while the second upper (lower) error corresponds to m_H = 1000 (60) GeV.

Searches for *b′* (4*th* Generation) Quark

Mass $m >$ 85 GeV, CL = 95% ($p\overline{p}$, charged current decays)
Mass $m >$ 46.0 GeV, CL = 95% ($e^+ e^-$, all decays)