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## Leptonic asymmetry in $t\bar{t}b\bar{a}$ production at CDF

We measure the asymmetry of the lepton in semileptonic  $t\bar{t}b\bar{a}$  decays in the full Run II sample of 9.4/fb. We develop a new technique to correct for the incomplete lepton acceptance and derive a parton-level asymmetry. The result of  $A_{fb}(\text{lep}) = 0.094^{+0.032}_{-0.029}$  is approximately  $2\sigma$  above the current Standard Model NLO prediction of  $A_{fb}(\text{lep}) = 0.036$ .

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