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Semileptonic Lifetimes of B Mesons from CDF RUN II Data

DAVID CLARK, Brandeis University, CDF COLLABORATION — A measurement of the $B^{+/-}$, B^0 , and B_s mesons' lifetimes are presented using semileptonic decay from $\sim 350 \text{ pb}^{-1}$ of data collected by CDF's lepton plus displaced track trigger. The decays of $B \rightarrow l \nu DX$, where D is either D^0 , D^* , D_s , are partially reconstructed from a lepton, a displaced track, and a fully reconstructed charm meson. The $B^{+/-}$, B^0 , and B_s lifetimes are obtained from an unbinned maximum-likelihood fit to the proper decay length distribution.

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