

Abstract Submitted
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Measurement of B Meson Lifetimes Using a Monte Carlo Independent Approach SNEHA MALDE, University of Oxford, CDF COLLABORATION — We present a measurement of the B^+ and B^0 lifetime in the fully reconstructed decay modes $B^+ \rightarrow D^0\pi^+$ and $B^0 \rightarrow D^+\pi^-$ with $D^0 \rightarrow K\pi$ and $D^+ \rightarrow K\pi\pi$, respectively. We use 1 fb^{-1} of data taken with the CDF II detector using the high impact parameter trigger. A lifetime bias is introduced by the trigger. This bias is accounted for by a calculation of the exact acceptance function on an event by event basis without the need to use Monte-Carlo simulation to model this bias.

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