

Abstract Submitted  
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***B* Meson Lifetimes in  $B \rightarrow J/\psi X$  Modes** CHUNLEI LIU, University of Pittsburgh, CDF COLLABORATION — Lifetimes of four species of  $b$ -hadrons are measured with the CDF detector at the Tevatron Collider in exclusive final states containing a  $J/\psi$ . The  $B^0$  and  $B^+$  meson lifetimes are individually measured with precision approaching the 1% level. We present lifetimes and lifetime ratios for those states. The same techniques used for the precision measurement of  $B^0$  and  $B^+$  are applied to the  $B_s^0$  meson and  $\Lambda_b$  baryon, both produced only at the Tevatron. We also present new lifetime measurements for these  $b$ -hadrons.

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