

Abstract Submitted  
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**Study of  $b$  baryons using D0 Run II data** JOSE ANDRES GARCIA, CINVESTAV, D0 COLLABORATION — We present a search for  $b$  baryons decaying into  $J/\psi$  final states using the full D0 Run II dataset, corresponding to an integrated luminosity of  $10.4 \text{ fb}^{-1}$  of proton-antiproton collisions. The search includes the channels  $\Xi_b^- \rightarrow J/\psi \Xi^-$  and  $\Omega_b \rightarrow J/\psi \Omega^-$ . We extract the lifetimes of these states using the resulting signals, and compare to predictions from theory, and to existing results from CDF.

Robert Hirsosky  
University of Rochester

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