

Abstract Submitted
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Measurement of the $\mathcal{B}(\Lambda_b^0 \rightarrow J/\Psi\Lambda_0)$ using 6.1 fb^{-1} of D0 data
ENRIQUE CAMACHO, CINVESTAV (Mexico), D0 COLLABORATION — We report a new measurement of the branching ratio $\mathcal{B}(\Lambda_b^0 \rightarrow J/\psi\Lambda_0)$ using 6.1 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$ recorded by the D0 detector at Fermilab, between 2002 and 2009. The uncertainty in the new measurement of $\mathcal{B}(\Lambda_b^0 \rightarrow J/\psi\Lambda_0)$ was reduced to half of the uncertainty in the world average from the PDG. We also report a new measurement of the the production cross-section times the branching fraction for the decay $\Lambda_b^0 \rightarrow J/\Psi\Lambda_0$ relative to that for the decay $B_d^0 \rightarrow J/\Psi K_s^0$.

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