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New measurement of b-hadron lifetimes at CDF

Thursday 22 July 2010 14:00 (15 minutes)

We report new, world-leading measurements of b-hadron lifetimes and their ratios using B+->J/ψ K+ , B0->J/ψ K0*, B0->J/ψ K0s and Λb->J/ψ Λ, decays reconstructed in a data sample corresponding to 4.3 fb-1 collected by the CDF experiment. A detailed resolution model provides improved systematic uncertainties on the lifetimes, and determination of the b hadron decay-length using only the J/ψ decay-vertex, common to all modes, allow cancellation of the major systematic uncertainties in their ratios.

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