

Observation of two Ξ_b^- baryon resonances at LHCb

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Using the 3/fb sample collected by LHCb in 2011-2012, two significant structures are observed in the $\Xi_b^0 \pi^-$ final state close to threshold. These structures are identified as two Ξ_b^- (bsd) baryon resonances. Measurements of their masses, widths, relative production rates, and angular distributions are presented.