

$\Omega_b(6330)^-$

$I(J^P) = ?(??)$ Status: *

I, J, P need confirmation.

OMITTED FROM SUMMARY TABLE

 $\Omega_b(6330)^-$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$6330.3 \pm 0.3 \pm 0.5$	¹ AAIJ	20T LHCb	pp at 7, 8, 13 TeV

¹AAIJ 20T measures $m(\Omega_b(6330)^-) - m(\Xi_b^0) = 538.40 \pm 0.28 \pm 0.07$ MeV. We have adjusted the measurement to our best values of $m(\Xi_b^0) = 5791.9 \pm 0.5$ MeV. Our first error is their experiment's error and our second error is the systematic error from using our best values.

 $\Omega_b(6330)^-$ WIDTH

VALUE (MeV)	CL%	DOCUMENT ID	TECN	COMMENT
<4.7	95	AAIJ	20T LHCb	pp at 7, 8, 13 TeV

 $\Omega_b(6330)^-$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Xi_b^0 K^-$	seen

 $\Omega_b(6330)^-$ BRANCHING RATIOS

$\Gamma(\Xi_b^0 K^-)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen	¹ AAIJ	20T LHCb	pp at 7, 8, 13 TeV	

¹AAIJ 20T establishes the decay at 2.6 σ significance level.

 $\Omega_b(6330)^-$ REFERENCESAAIJ 20T PRL 124 082002 R. Aaij *et al.* (LHCb Collab.)