$\Omega_b(6330)^-$

$I(J^P) = ?(?^?)$ Status: *
I, J, P need confirmation.

OMITTED FROM SUMMARY TABLE

$\Omega_b(6330)^-$ MASS

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
6330.3±0.3±0.5	[1] AAIJ	20T	LHCB	pp at 7, 8, 13 TeV

[1] AAIJ 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)
Γ_1	$\Xi_b^0 K^-$	seen

$\Omega_b(6330)^-$ BRANCHING RATIOS

$\Gamma(\Xi_b^0 K^-)/\Gamma_{total}$ **Γ_1/Γ**

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	[1] AAIJ	20T	LHCB	pp at 7, 8, 13 TeV

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

$\Omega_b(6330)^-$ REFERENCES

AAIJ 20T PRL 124 082002 R. Aaij *et al.* (LHCb Collab.)