

# $\Omega_b(6316)^-$

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

## $\Omega_b(6316)^-$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>6315.6 ± 0.3 ± 0.5</b>	<sup>1</sup> AAIJ	20T LHCB	<i>pp</i> at 7, 8, 13 TeV

<sup>1</sup> AAIJ 20T measures  $m(\Omega_b(6316)^-) - m(\Xi_b^0) = 523.74 \pm 0.31 \pm 0.07$  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.

## $\Omega_b(6316)^-$ WIDTH

VALUE (MeV)	CL%	DOCUMENT ID	TECN	COMMENT
<b>&lt;4.2</b>	95	AAIJ	20T LHCB	<i>pp</i> at 7, 8, 13 TeV

## $\Omega_b(6316)^-$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \Xi_b^0 K^-$	seen

## $\Omega_b(6316)^-$ BRANCHING RATIOS

$\Gamma(\Xi_b^0 K^-)/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$		
VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	<sup>1</sup> AAIJ	20T LHCB	<i>pp</i> at 7, 8, 13 TeV

<sup>1</sup> AAIJ 20T establishes the decay at 2.1  $\sigma$  significance level.

## $\Omega_b(6316)^-$ REFERENCES

AAIJ	20T	PRL 124 082002	R. Aaij <i>et al.</i>	(LHCb Collab.)
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