

$\Omega_b(6316)^-$ 

$I(J^P) = ?(?^?)$  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	$pp$ 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	$pp$ 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	$pp$ 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 et al.	(LHCb Collab.)
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