

$\Xi_b(6227)^0$  $J^P = ??$ 

Status: \*\*\*

 $\Xi_b(6227)^0$  MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$6226.8^{+1.4}_{-1.5} \pm 0.6$	1,2 AAIJ	21	LHCB $pp$ at 7, 8, 13 TeV

<sup>1</sup> AAIJ 21 measures  $m(\Xi_b(6227)^0) - m(\Xi_b^-) = 429.8^{+1.4}_{-1.5} \pm 0.3$  MeV. We have adjusted the measurement to our best value of  $m(\Xi_b^-) = 5797.0 \pm 0.6$  MeV. Our first error is their experiment's error and our second error is the systematic error from using our best values.

<sup>2</sup> Uses  $\Xi_b^- \pi^+$  decays.

 $\Xi_b(6227)^0$  WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$18.6^{+5.0}_{-4.1} \pm 1.4$	<sup>1</sup> AAIJ	21	LHCB $pp$ at 7, 8, 13 TeV

<sup>1</sup> Uses  $\Xi_b^- \pi^+$  decays.

 $\Xi_b(6227)^0$  DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \Xi_b^- \pi^+ \times B(b \rightarrow \Xi_b(6227)^0)/B(b \rightarrow \Xi_b^-)$	$(4.5 \pm 0.9) \%$

 $\Xi_b(6227)^0$  BRANCHING RATIOS

VALUE (%)	DOCUMENT ID	TECN	COMMENT	$\Gamma_1/\Gamma$
$4.5 \pm 0.8 \pm 0.4$	AAIJ	21	LHCB $pp$ at 7, 8, 13 TeV	

 $\Xi_b(6227)^0$  REFERENCES

AAIJ 21 PR D103 012004 R. Aaij *et al.* (LHCb Collab.)