

$\Xi_b(6227)^0$	$J^P = ?^?$	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 $p p$ at 7, 8, 13 TeV

¹ 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.

² 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$	1 AAIJ	21	LHCb $p p$ at 7, 8, 13 TeV

¹ Uses $\Xi_b^- \pi^+$ decays.

$\Xi_b(6227)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Xi_b^- \pi^+ \times B(b \rightarrow \Xi_b(6227)^0)/B(b \rightarrow \Xi_b^-)$	(4.5 ± 0.9) %

$\Xi_b(6227)^0$ BRANCHING RATIOS

$\Gamma(\Xi_b^- \pi^+ \times B(b \rightarrow \Xi_b(6227)^0)/B(b \rightarrow \Xi_b^-))/\Gamma_{\text{total}}$	Γ_1/Γ
4.5$\pm 0.8 \pm 0.4$	AAIJ 21 LHCb $p p$ at 7, 8, 13 TeV

$\Xi_b(6227)^0$ REFERENCES

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