

NODE=B199

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

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.

NODE=B199M

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NODE=B199M;LINKAGE=A

NODE=B199M;LINKAGE=B

NODE=B199W

NODE=B199W

NODE=B199W;LINKAGE=A

NODE=B199215;NODE=B199

 $\Xi_b(6227)^0$ 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) %

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NODE=B199220

NODE=B199R01
NODE=B199R01 **$\Xi_b(6227)^0$ 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$\pm 0.8 \pm 0.4$	

NODE=B199

REFID=60752

 $\Xi_b(6227)^0$ REFERENCES

AAIJ	21	PR D103 012004	R. Aaij <i>et al.</i>	(LHCb Collab.)
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