$\Xi_b(6227)^0$

$J^P = ?^?$ Status: ***

$\Xi_b(6227)^0$ MASS

VALUE (MeV)		*DOCUMENT ID*		*TECN*	*COMMENT*
$\mathbf{6226.8^{+1.4}_{-1.5}\pm0.6}$	[1,2]	AAIJ	21	LHCB	pp 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*
$\mathbf{18.6^{+5.0}_{-4.1}\pm1.4}$	[1]	AAIJ	21	LHCB	pp at 7, 8, 13 TeV

[1] Uses $\Xi_b^- \pi^+$ decays.

$\Xi_b(6227)^0$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\Xi_b^- \pi^+ \times$ B($b \to$ $\Xi_b(6227)^0$)/B($b \to$ Ξ_b^-)	(4.5±0.9) %

$\Xi_b(6227)^0$ BRANCHING RATIOS

$\Gamma(\Xi_b^- \pi^+ \times$ B($b \to \Xi_b(6227)^0$)/B($b \to \Xi_b^-$))/Γ_{total} **Γ_1/Γ**

VALUE (%)	*DOCUMENT ID*		*TECN*	*COMMENT*
4.5±0.8±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.)