$\Lambda_b(6070)^0$

$J^P = \frac{1}{2}^+$ Status: ***

Quantum numbers are based on quark model expectations.

$\Lambda_b(6070)^0$ MASS

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
6072.3±2.9±0.2	[1] AAIJ	20Q	LHCB	pp at 7, 8, 13 TeV

[1] AAIJ 20Q measures $m(\Lambda_b(6070)^0) - m(\Lambda_b^0) = 452.7 \pm 2.9 \pm 0.5$ MeV. We have adjusted the measurement to our best value of $m(\Lambda_b^0) = 5619.60 \pm 0.17$ MeV. Our first error is their experiment's error and our second error is the systematic error from using our best values.

$\Lambda_b(6070)^0$ WIDTH

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
72±11±2	AAIJ	20Q	LHCB	pp at 7, 8, 13 TeV

$\Lambda_b(6070)^0$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\Lambda_b^0\pi^+\pi^-$	seen

$\Lambda_b(6070)^0$ BRANCHING RATIOS

$\Gamma(\Lambda_b^0\pi^+\pi^-)/\Gamma_{\text{total}}$ **Γ_1/Γ**

VALUE	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	AAIJ	20Q	LHCB	pp at 7, 8, 13 TeV

$\Lambda_b(6070)^0$ REFERENCES

AAIJ 20Q JHEP 2006 136 R. Aaij *et al.* (LHCb Collab.)