

$\Lambda_b(6070)^0$

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

Status: ***

Quantum numbers are based on quark model expectations.

$\Lambda_b(6070)^0$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$6072.3 \pm 2.9 \pm 0.2$	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 $m(\Lambda_b^0) = 5619.57 \pm 0.16$ 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
$72 \pm 11 \pm 2$	AAIJ	20Q LHCB	pp at 7, 8, 13 TeV

$\Lambda_b(6070)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Lambda_b^0 \pi^+ \pi^-$	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 <i>et al.</i>	(LHCb Collab.)
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