

$\Lambda_b(6146)^0$

$$J^P = \frac{3}{2}^+$$

Status: ***

Quantum numbers are based on quark model expectations.

 $\Lambda_b(6146)^0$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$6146.17 \pm 0.33 \pm 0.27$	¹ AAIJ	19AJ LHCB	<i>pp</i> at 7, 8, 13 TeV
¹ Observed in $\Lambda_b^0 \pi^+ \pi^-$ mode.			

 $\Lambda_b(6146)^0$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$2.9 \pm 1.3 \pm 0.3$	¹ AAIJ	19AJ LHCB	<i>pp</i> at 7, 8, 13 TeV
¹ Observed in $\Lambda_b^0 \pi^+ \pi^-$ mode.			

 $m_{\Lambda_b(6146)^0} - m_{\Lambda_b^0}$

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$526.55 \pm 0.33 \pm 0.10$	¹ AAIJ	19AJ LHCB	<i>pp</i> at 7, 8, 13 TeV
¹ Observed in $\Lambda_b^0 \pi^+ \pi^-$ mode.			

 $\Lambda_b(6146)^0$ DECAY MODES

Mode
$\Gamma_1 \quad \Lambda_b^0 \pi^+ \pi^-$

 $\Lambda_b(6146)^0$ BRANCHING RATIOS $\Gamma(\Lambda_b^0 \pi^+ \pi^-) / \Gamma_{\text{total}} \quad \Gamma_1 / \Gamma$ $\Lambda_b(6146)^0$ REFERENCESAAIJ 19AJ PRL 123 152001 R. Aaij *et al.* (LHCb Collab.)