

$\Lambda_b(6152)^0$ 

$$J^P = \frac{5}{2}^+$$

Status: \*\*\*

Quantum numbers are based on quark model expectations.

 $\Lambda_b(6152)^0$  MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>6152.51 \pm 0.26 \pm 0.27</math></b>	<sup>1</sup> AAIJ	19AJ LHCB	<i>pp</i> at 7, 8, 13 TeV
<sup>1</sup> Observed in $\Lambda_b^0 \pi^+ \pi^-$ mode.			

 $\Lambda_b(6152)^0$  WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>2.1 \pm 0.8 \pm 0.3</math></b>	<sup>1</sup> AAIJ	19AJ LHCB	<i>pp</i> at 7, 8, 13 TeV
<sup>1</sup> Observed in $\Lambda_b^0 \pi^+ \pi^-$ mode.			

 $m_{\Lambda_b(6152)^0} - m_{\Lambda_b^0}$ 

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>532.89 \pm 0.26 \pm 0.10</math></b>	<sup>1</sup> AAIJ	19AJ LHCB	<i>pp</i> at 7, 8, 13 TeV
<sup>1</sup> Observed in $\Lambda_b^0 \pi^+ \pi^-$ mode.			

 $m_{\Lambda_b(6152)^0} - m_{\Lambda_b(6146)^0}$ 

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>6.34 \pm 0.32 \pm 0.02</math></b>	AAIJ	19AJ LHCB	<i>pp</i> at 7, 8, 13 TeV

 $\Lambda_b(6152)^0$  DECAY MODES

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

 $\Lambda_b(6152)^0$  BRANCHING RATIOS

$$\Gamma(\Lambda_b^0 \pi^+ \pi^-) / \Gamma_{\text{total}} \qquad \Gamma_1 / \Gamma$$

 $\Lambda_b(6152)^0$  REFERENCESAAIJ      19AJ PRL 123 152001      R. Aaij *et al.*      (LHCb Collab.)