

NODE=B208

 $\Xi_b(6095)^0$
 $I(J^P) = \frac{1}{2}(\frac{3}{2}^-)$ Status: ***
 J, P need confirmation.
 $\Xi_b(6095)^0$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$6095.3 \pm 0.2 \pm 0.5$	1,2 AAIJ	23AU LHCb	$p p$ at 7, 8, 13 TeV

¹ Observed in $\Xi_b^0 \pi^+ \pi^-$ channel with $\Xi_b^0 \rightarrow \Xi_c^+ \pi^-$ and $\Xi_b^0 \rightarrow \Xi_c^+ \pi^- \pi^+ \pi^-$ and $\Xi_c^+ \rightarrow p K^- \pi^+$. Measured as mass difference, listed separately.
² AAIJ 23AU measures $m(\Xi_b(6095)^0) - m(\Xi_b^0) - 2m(\pi^\pm) = 24.32 \pm 0.15 \pm 0.03$ MeV. We have adjusted the measurement to our best values of $m(\Xi_b^0) = 5791.9 \pm 0.5$ MeV, $m(\pi^\pm) = 139.57039 \pm 0.00018$ MeV. Our first error is their experiment's error and our second error is the systematic error from using our best values.

NODE=B208M

NODE=B208M

OCCUR=2

NODE=B208M;LINKAGE=A

NODE=B208M;LINKAGE=C

 $\Xi_b(6095)^0$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$0.50 \pm 0.33 \pm 0.11$	1 AAIJ	23AU LHCb	$p p$ at 7, 8, 13 TeV

Observed in $\Xi_b^0 \pi^+ \pi^-$ channel with $\Xi_b^0 \rightarrow \Xi_c^+ \pi^-$ and $\Xi_b^0 \rightarrow \Xi_c^+ \pi^- \pi^+ \pi^-$ and $\Xi_c^+ \rightarrow p K^- \pi^+$

NODE=B208W

NODE=B208W

NODE=B208W;LINKAGE=A

 $\Xi_b(6095)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Xi_b^0 \pi^+ \pi^-$	seen

NODE=B208215;NODE=B208

 $\Xi_b(6095)^0$ BRANCHING RATIOS

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

VALUE	DOCUMENT ID	TECN	COMMENT
seen	AAIJ	23AU LHCb	$p p$ at 7, 8, 13 TeV

DESIG=1

NODE=B208225

NODE=B208R00
NODE=B208R00 **$\Xi_b(6095)^0$ REFERENCES**

AAIJ	23AU PRL 131 171901	R. Aaij <i>et al.</i>	(LHCb Collab.)
------	---------------------	-----------------------	----------------

NODE=B208

REFID=62459