

$$\Omega_c(3090)^0$$

$$I(J^P) = ?(??) \quad \text{Status: } ***$$

$\Omega_c(3090)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
3090.1 ± 0.5 OUR AVERAGE				
3091.0 ± 1.1 ± 1.0 ^{+0.19} _{-0.22}	41	¹ AAIJ	21AC LHCB	pp at 7, 8, 13 TeV
3089.3 ± 1.2 ± 0.2	87	YELTON	18B BELLE	e^+e^- at $\Upsilon(4S)$
3090.2 ± 0.3 ± 0.5	2.0k	AAIJ	17AH LHCB	pp at 7, 8, 13 TeV

¹ Measured via $\Omega_b^- \rightarrow \Omega_c^{*0} \pi^- \rightarrow \Xi_c^+ K^- \pi^-$. The third uncertainty is due to the uncertainty in the Ξ_c^+ mass.

$\Omega_c(3090)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
8.7 ± 1.0 ± 0.8	2.0k	AAIJ	17AH LHCB	pp at 7, 8, 13 TeV
• • • We do not use the following data for averages, fits, limits, etc. • • •				
7.4 ± 3.1 ± 2.8	41	AAIJ	21AC LHCB	pp at 7, 8, 13 TeV

$\Omega_c(3090)^0$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \Xi_c^+ K^-$	seen

$\Omega_c(3090)^0$ BRANCHING RATIOS

$\Gamma(\Xi_c^+ K^-)/\Gamma_{\text{total}}$	Γ_1/Γ			
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
seen	41	¹ AAIJ	21AC LHCB	pp at 7, 8, 13 TeV
seen	87	YELTON	18B BELLE	e^+e^- at $\Upsilon(4S)$
seen	2.0k	² AAIJ	17AH LHCB	pp at 7, 8, 13 TeV

¹ AAIJ 21AC report a significance of 7.8 σ .

² AAIJ 17AH report a significance of 21.1 σ .

$\Omega_c(3090)^0$ REFERENCES

AAIJ	21AC PR D104 L091102	R. Aaij <i>et al.</i>	(LHCb Collab.)
YELTON	18B PR D97 051102	J. Yelton <i>et al.</i>	(BELLE Collab.)
AAIJ	17AH PRL 118 182001	R. Aaij <i>et al.</i>	(LHCb Collab.)