

**$\Omega_c(3120)^0$**  $I(J^P) = ?(?)$  Status: \*\*\* **$\Omega_c(3120)^0$  MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>3118.98±0.12<sup>+0.09</sup><sub>-0.23</sub>±0.23</b>	3.7k	1 AAIJ	23AS LHCb	$p p$ at 7, 8, 13 TeV
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>				
3119.1 ± 0.3 ± 0.9 ± 0.3	480	2,3 AAIJ	17AH LHCb	$p p$ at 7, 8, 13 TeV
1 The third uncertainty is due to the uncertainty in the $\Xi_c^+$ mass, taken to be the PDG 22 fit result $2467.71 \pm 0.23$ MeV.				
2 The third error is the uncertainty on the $\Xi_c^+$ mass. (AAIJ 17AH gave $+0.3$ MeV here, but as of 2018 it is $\pm 0.3$ .)				
3 See AAIJ 23AS.				

 **$\Omega_c(3120)^0$  WIDTH**

VALUE (MeV)	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<b>&lt;2.5</b>	95	3.7k	1 AAIJ	23AS LHCb	$p p$ at 7, 8, 13 TeV
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>					
<2.6	95	480	2 AAIJ	17AH LHCb	$p p$ at 7, 8, 13 TeV
1 AAIJ 23AS also report a central value of $0.60 \pm 0.63^{+0.90}_{-1.05}$ .					
2 See AAIJ 23AS.					

 **$\Omega_c(3120)^0$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 \quad \Xi_c^+ K^-$	seen

 **$\Omega_c(3120)^0$  BRANCHING RATIOS**

$\Gamma(\Xi_c^+ K^-)/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma$
seen	3.7k
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>	
seen	480
1 AAIJ 17AH report a significance of 10.4 $\sigma$ .	
2 See AAIJ 23AS.	

 **$\Omega_c(3120)^0$  REFERENCES**

AAIJ	23AS PRL 131 131902	R. Aaij <i>et al.</i>	(LHCb Collab.)
PDG	22 PTEP 2022 083C01	R.L. Workman <i>et al.</i>	(PDG Collab.)
AAIJ	17AH PRL 118 182001	R. Aaij <i>et al.</i>	(LHCb Collab.)

NODE=B177M

NODE=B177M

NODE=B177M;LINKAGE=B

NODE=B177M;LINKAGE=A

NODE=B177M;LINKAGE=C

NODE=B177W

NODE=B177W

NODE=B177W;LINKAGE=A  
NODE=B177W;LINKAGE=B

NODE=B177215;NODE=B177

DESIG=1

NODE=B177225

NODE=B177R01  
NODE=B177R01NODE=B177R01;LINKAGE=A  
NODE=B177R01;LINKAGE=B

NODE=B177

REFID=62449  
REFID=61634  
REFID=57925