

$\Omega_c(3120)^0$  $I(J^P) = ?(?)$  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	<sup>1</sup> AAIJ	23AS LHCb	$p p$ at 7, 8, 13 TeV

• • • We do not use the following data for averages, fits, limits, etc. • • •

3119.1	±0.3	±0.9	±0.3	480	<sup>2,3</sup> AAIJ	17AH LHCb	$p p$ at 7, 8, 13 TeV
--------	------	------	------	-----	---------------------	-----------	-----------------------

<sup>1</sup> 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.

<sup>2</sup> The third error is the uncertainty on the  $\Xi_c^+$  mass. (AAIJ 17AH gave  $+0.3$  MeV here, but as of 2018 it is  $\pm 0.3$ .)

<sup>3</sup> See AAIJ 23AS.

 $\Omega_c(3120)^0$  WIDTH

VALUE (MeV)	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<b>&lt;2.5</b>	95	3.7k	<sup>1</sup> AAIJ	23AS LHCb	$p p$ at 7, 8, 13 TeV

• • • We do not use the following data for averages, fits, limits, etc. • • •

<2.6	95	480	<sup>2</sup> AAIJ	17AH LHCb	$p p$ at 7, 8, 13 TeV
------	----	-----	-------------------	-----------	-----------------------

<sup>1</sup> AAIJ 23AS also report a central value of  $0.60 \pm 0.63^{+0.90}_{-1.05}$ .

<sup>2</sup> 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 $\Gamma(\Xi_c^+ K^-)/\Gamma_{\text{total}}$   $\Gamma_1/\Gamma$ 

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	3.7k	AAIJ	23AS LHCb	$p p$ at 7, 8, 13 TeV

• • • We do not use the following data for averages, fits, limits, etc. • • •

seen	480	<sup>1,2</sup> AAIJ	17AH LHCb	$p p$ at 7, 8, 13 TeV
------	-----	---------------------	-----------	-----------------------

<sup>1</sup> AAIJ 17AH report a significance of 10.4  $\sigma$ .

<sup>2</sup> 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.)