

$\Omega_c(3120)^0$

$I(J^P) = ?(?^?)$ Status: ***

$\Omega_c(3120)^0$ MASS

| VALUE (MeV) | EVTS | DOCUMENT ID | TECN | COMMENT |
|--------------------------|------|-------------------|-----------|----------------------|
| 319.1±0.3±0.9±0.3 | 480 | ¹ AAIJ | 17AH LHCB | pp at 7, 8, 13 TeV |

¹The third error is the uncertainty on the Ξ_c^+ mass. (AAIJ 17AH gave $+0.3$ MeV here, but as of 2018 it is ± 0.3 .)

$\Omega_c(3120)^0$ WIDTH

| VALUE (MeV) | CL% | DOCUMENT ID | TECN | COMMENT |
|----------------|-----|-------------|-----------|----------------------|
| <2.6 | 95 | AAIJ | 17AH LHCB | pp at 7, 8, 13 TeV |

$\Omega_c(3120)^0$ DECAY MODES

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

$\Omega_c(3120)^0$ BRANCHING RATIOS

| $\Gamma(\Xi_c^+ K^-)/\Gamma_{\text{total}}$ | Γ_1/Γ |
|---|-------------------|
| seen | |

| VALUE | DOCUMENT ID | TECN | COMMENT |
|-------------------|-------------|------|----------------------|
| ¹ AAIJ | 17AH LHCB | | pp at 7, 8, 13 TeV |

¹AAIJ 17AH report a significance of 10.4 σ .

$\Omega_c(3120)^0$ REFERENCES

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|------|---------------------|-----------------------|----------------|
| AAIJ | 17AH PRL 118 182001 | R. Aaij <i>et al.</i> | (LHCb Collab.) |
|------|---------------------|-----------------------|----------------|