$\Omega_c(3065)^0$

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

AAIJ 21AC rejects $J = 1/2$ hypothesis at 3.6 σ.

$\Omega_c(3065)^0$ MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
3065.54±0.26 OUR AVERAGE					
3065.9 ±0.4 $\pm 0.4^{+0.19}_{-0.22}$	51	[1] AAIJ	21AC	LHCB	pp at 7, 8, 13 TeV
3064.9 ±0.6 ±0.2	82	YELTON	18B	BELL	e^+e^- at $\Upsilon(4S)$
3065.6 ±0.1 ±0.3	1.74k	AAIJ	17AH	LHCB	pp at 7, 8, 13 TeV

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

$\Omega_c(3065)^0$ WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
3.3±0.6 OUR AVERAGE Error includes scale factor of 1.5.					
1.7±1.0±0.5	51	AAIJ	21AC	LHCB	pp at 7, 8, 13 TeV
3.5±0.4±0.2	1.74k	AAIJ	17AH	LHCB	pp at 7, 8, 13 TeV

$\Omega_c(3065)^0$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\Xi_c^+ K^-$	seen

$\Omega_c(3065)^0$ BRANCHING RATIOS

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

VALUE	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
seen	51	[1] AAIJ	21AC	LHCB	pp at 7, 8, 13 TeV
seen	82	YELTON	18B	BELL	e^+e^- at $\Upsilon(4S)$
seen	1.74k	[2] AAIJ	17AH	LHCB	pp at 7, 8, 13 TeV

[1] AAIJ 21AC report a significance of 11.9 σ.
[2] AAIJ 17AH report a significance of 23.9 σ.

$\Omega_c(3065)^0$ REFERENCES

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