

$\Xi_c(2930)$ $I(J^P) = ?(?^?)$ Status: **

OMITTED FROM SUMMARY TABLE

 $\Xi_c(2930)$ MASSES $\Xi_c(2930)^+$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2942.3 ± 4.4 ± 1.5	21	LI	18D	BELL e^+e^- at $\Upsilon(4S)$

 $\Xi_c(2930)^0$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2929.7^{+2.8}_{-5.0} OUR AVERAGE				

2928.9 ± 3.0 ^{+0.9} _{-12.0}	61	LI	18A	BELL e^+e^- at $\Upsilon(4S)$
2931 ± 3 ± 5	34	AUBERT	08H	BABR $\Upsilon(4S) \rightarrow B\bar{B}$

 $\Xi_c(2930)^+ - \Xi_c(2930)^0$ MASS DIFFERENCE

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

13.4 ± 5.3 ^{+1.7} _{-12.1}	21	¹ LI	18D	BELL e^+e^- at $\Upsilon(4S)$
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¹This LI 18D value is not independent of the mass measurements. $\Xi_c(2930)$ WIDTHS $\Xi_c(2930)^+$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
14.8 ± 8.8 ± 2.5	21	LI	18D	BELL e^+e^- at $\Upsilon(4S)$

 $\Xi_c(2930)^0$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
26 ± 8 OUR AVERAGE				

19.5 ± 8.4 ^{+5.9} _{-7.9}	61	LI	18A	BELL e^+e^- at $\Upsilon(4S)$
36 ± 7 ± 11	34	AUBERT	08H	BABR $\Upsilon(4S) \rightarrow B\bar{B}$

 $\Xi_c(2930)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \Lambda_c^+ K^-$	seen
$\Gamma_2 \Lambda_c^+ K_S^0$	seen

$\Xi_c(2930)$ BRANCHING RATIOS

$\Gamma(\Lambda_c^+ K^-)/\Gamma_{\text{total}}$					Γ_1/Γ
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
seen	61	LI	18A	BELL	Significance 5.1 std
seen	34	AUBERT	08H	BABR	e^+e^- at $\Upsilon(4S)$

$\Gamma(\Lambda_c^+ K_S^0)/\Gamma_{\text{total}}$					Γ_2/Γ
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
seen	21	LI	18D	BELL	Significance 4.1 std

$\Xi_c(2930)$ REFERENCES

LI	18A	EPJ C78 252	Y.B. Li <i>et al.</i>	(BELLE Collab.)
LI	18D	EPJ C78 928	Y.B. Li <i>et al.</i>	(BELLE Collab.)
AUBERT	08H	PR D77 031101	B. Aubert <i>et al.</i>	(BABAR Collab.)