



$$I(J^P) = ?(??) \quad \text{Status: } *$$

OMITTED FROM SUMMARY TABLE

Ξ_{cc}^+ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
3518.9±0.9 OUR AVERAGE				
3518 ±3	6	¹ OCHERASHVI..05	SELX	Σ^- nucleus \approx 600 GeV
3519 ±1	16	² MATTSON 02	SELX	Σ^- nucleus \approx 600 GeV

¹ OCHERASHVILI 05 claims "an excess of 5.62 events over ... 1.38 ± 0.13 events" for a significance of 4.8σ in $pD^+ K^-$ events.

² MATTSON 02 claims "an excess of 15.9 events over an expected background of 6.1 ± 0.5 events, a statistical significance of 6.3σ " in the $\Lambda_c^+ K^- \pi^+$ invariant-mass spectrum.

The probability that the peak is a fluctuation increases from 1.0×10^{-6} to 1.1×10^{-4} when the number of bins searched is considered.

Ξ_{cc}^+ MEAN LIFE

VALUE (10^{-15} s)	CL%	DOCUMENT ID	TECN	COMMENT
<33	90	MATTSON 02	SELX	Σ^- nucleus, \approx 600 GeV

Ξ_{cc}^+ DECAY MODES

Mode	
Γ_1	$\Lambda_c^+ K^- \pi^+$
Γ_2	$pD^+ K^-$

$\Gamma(pD^+ K^-)/\Gamma(\Lambda_c^+ K^- \pi^+)$				Γ_2/Γ_1
VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
0.36±0.21	6	OCHERASHVI..05	SELX	$\Sigma^- \approx$ 600 GeV

Ξ_{cc}^+ REFERENCES

OCHERASHVI...05	PL B628 18	A. Ocherashvili <i>et al.</i>	(FNAL SELEX Collab.)
MATTSON 02	PRL 89 112001	M. Mattson <i>et al.</i>	(FNAL SELEX Collab.)