

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

OMITTED FROM SUMMARY TABLE

MATTSON 02 claims "an excess of 15.9 events over an expected background of 6.1 \pm 0.5 events, a statistical significance of 6.3 σ " 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.

See the paper for various other tests made of the significance of the signal. Confirmation is needed before the state can be considered to be established.

Ξ_{cc}^+ MASS						
VALUE (Me	/)	EVTS	DOCUMENT ID		TECN	COMMENT
3519 ±1		16	1 MATTSON	02	SELX	Σ^- nucleus, $pprox$ 600 GeV
¹ This error is statistical; MATTSON 02 does not give a systematic uncertainty on the mass.						
Ξ_{cc}^+ MEAN LIFE						
VALUE (10	⁻¹⁵ s)	<u>CL%</u>	DOCUMENT ID		TECN	COMMENT
<33		90	MATTSON	02	SELX	Σ^- nucleus, $pprox$ 600 GeV
Ξ_{cc}^{+} REFERENCES						
MATTSON 02 PRL 89 112001			M. Mattson <i>et al.</i>			(FNAL SELEX Collab.)

HTTP://PDG.LBL.GOV