

**$\Xi(2250)$** 

$I(J^P) = \frac{1}{2}(??)$  Status: \* \*

$J, P$  need confirmation.

## OMITTED FROM SUMMARY TABLE

The evidence for this state is mixed. BARTSCH 69 sees a bump of not much statistical significance in  $\Lambda\bar{K}\pi$ ,  $\Sigma\bar{K}\pi$ , and  $\Xi\pi\pi$  mass spectra. GOLDWASSER 70 sees a narrower bump in  $\Xi\pi\pi$  at a higher mass. Not seen by HASSALL 81 with 45 events/ $\mu b$  at 6.5 GeV/c. Seen by JENKINS 83. Perhaps seen by BIAGI 87.

 **$\Xi(2250)$  MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b><math>\approx 2250</math> OUR ESTIMATE</b>					
2189 $\pm$ 7	66	BIAGI	87	SPEC	$\Xi^- \text{Be} \rightarrow (\Xi^- \pi^+ \pi^-)$ X
2214 $\pm$ 5		JENKINS	83	MPS	$K^- p \rightarrow K^+$ MM
2295 $\pm$ 15	18	GOLDWASSER 70	HBC	—	$K^- p$ 5.5 GeV/c
2244 $\pm$ 52	35	BARTSCH	69	HBC	$K^- p$ 10 GeV/c

 **$\Xi(2250)$  WIDTH**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
46 $\pm$ 27	66	BIAGI	87	SPEC	$\Xi^- \text{Be} \rightarrow (\Xi^- \pi^+ \pi^-)$ X
< 30		GOLDWASSER 70	HBC	—	$K^- p$ 5.5 GeV/c
130 $\pm$ 80		BARTSCH	69	HBC	

 **$\Xi(2250)$  DECAY MODES**

Mode	
$\Gamma_1$	$\Xi\pi\pi$
$\Gamma_2$	$\Lambda\bar{K}\pi$
$\Gamma_3$	$\Sigma\bar{K}\pi$

 **$\Xi(2250)$  REFERENCES**

BIAGI	87	ZPHY C34 15	S.F. Biagi <i>et al.</i>	(BRIS, CERN, GEVA+)
JENKINS	83	PRL 51 951	C.M. Jenkins <i>et al.</i>	(FSU, BRAN, LBL+)
HASSALL	81	NP B189 397	J.K. Hassall <i>et al.</i>	(CAVE, MSU)
GOLDWASSER	70	PR D1 1960	E.L. Goldwasser, P.F. Schultz	(ILL)
BARTSCH	69	PL 28B 439	J. Bartsch <i>et al.</i>	(AACH, BERL, CERN+)