

$\Xi(2250)$ 
 $I(J^P) = \frac{1}{2}(??)$  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/ $\mu\text{b}$  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	– $K^- p \rightarrow K^+ \text{MM}$
$2295 \pm 15$	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+)