$\Xi(1620)$

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

OMITTED FROM SUMMARY TABLE

What little evidence there is consists of weak signals in the $\Xi\pi$ channel. A number of other experiments (e.g., BORENSTEIN 72 and HASSALL 81) have looked for but not seen any effect.

Ξ(1620) MASS

VALUE (MeV)	<u>EVTS</u>	DOCUMENT ID		TECN	COMMENT
≈ 1620 OUR ESTIMAT	E				
1624 ± 3	31	BRIEFEL	77	HBC	$K^- p \ 2.87 \ \text{GeV}/c$
1633 ± 12	34	DEBELLEFON	75 B	HBC	$K^- p \rightarrow \Xi^- \overline{K} \pi$
$1606\pm~6$	29	ROSS	72	HBC	$K^- p 3.1-3.7 \text{ GeV}/c$

Ξ(1620) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
22.5	31	¹ BRIEFEL	77	HBC	K^-p 2.87 GeV/ c
40 ± 15	34	DEBELLEFON	75 B	HBC	$K^- p \rightarrow \Xi^- \overline{K} \pi$
21 ± 7	29	ROSS	72	HBC	
					$\Xi^- \pi^+ K^{*0}$ (892)

≡(1620) DECAY MODES

Mode

 Γ_1 $\Xi \pi$

Ξ(1620) FOOTNOTES

Ξ(1620) REFERENCES

HASSALL BRIEFEL	81 77	NP B189 397 PR D16 2706	J.K. Hassall <i>et al.</i> E. Briefel <i>et al.</i>	(CAVE, MSU) (BRAN, UMD, SYRA+)
Also		Duke Conf. 317	E. Briefel et al.	(BRAN, UMD, SYRA+)
Hyperon R	esonan	ces, 1970		
Also		PR D12 1859	E. Briefel et al.	(BRAN, UMD, SYRA+)
DEBELLEFON	75B	NC 28A 289	A. de Bellefon <i>et al.</i>	(CDEF, SACL)
BORENSTEIN	72	PR D5 1559	S.R. Borenstein et al.	(BNL, MICH) I
ROSS	72	PL 38B 177	R.T. Ross et al.	` (OXF) I

OTHER RELATED PAPERS -

HUNGERBU 74 SCHMIDT 73 KALBFLEISCH 70	Purdue Conf. 363	V. Hungerbuhler <i>et al.</i> P.E. Schmidt G.R. Kalbfleisch	(YALE, FNAL, BNL+) (BRAN) (BNL) I
Hyperon Resonal	nces 1970		,
APSELL 69	PRL 23 884	S.P. Apsell et al.	(BRAN, UMD, SYRA+)
BARTSCH 69	PL 28B 439	J. Bartsch <i>et al.</i>	(AACH, BERL, CERN+)

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¹The fit is insensitive to values between 15 and 30 MeV.