$f_1(1510)$

$I^G(J^{PC}) = 0^+(1^{++})$

OMITTED FROM SUMMARY TABLE

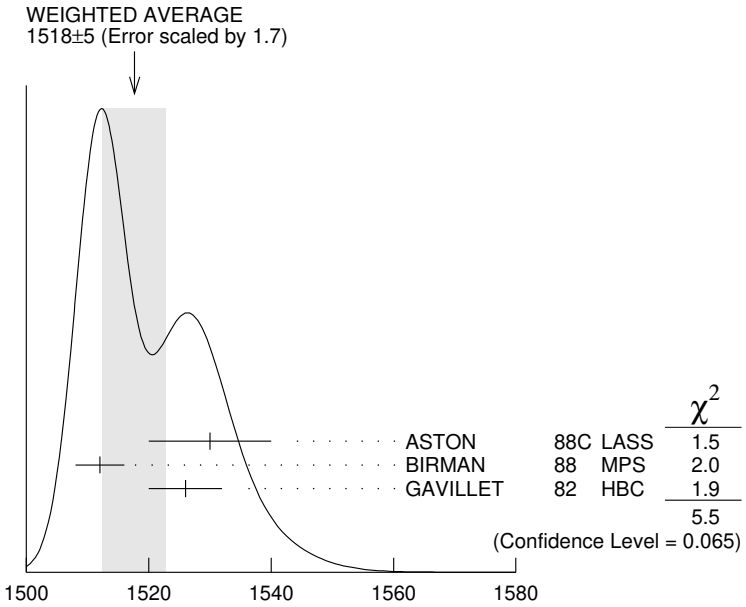
See the minireview under $\eta(1440)$.

$f_1(1510)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
1518± 5 OUR AVERAGE		Error includes scale factor of 1.7. See the ideogram below.			
1530±10		ASTON	88C	LASS	11 $K^- p \to K^0_S K^\pm \pi^\mp \Lambda$
1512± 4	600	[1] BIRMAN	88	MPS	8 $\pi^- p \to K^+ \overline{K}^0 \pi^- n$
1526± 6	271	GAVILLET	82	HBC	4.2 $K^- p \to \Lambda K K \pi$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
~ 1525		[2] BAUER	93B		$\gamma \gamma^* \to \pi^+ \pi^- \pi^0 \pi^0$

[1] From partial wave analysis of $K^+ \overline{K}^0 \pi^-$ state.

[2] Not seen by AIHARA 88C in the $K^0_S K^\pm \pi^\mp$ final state.

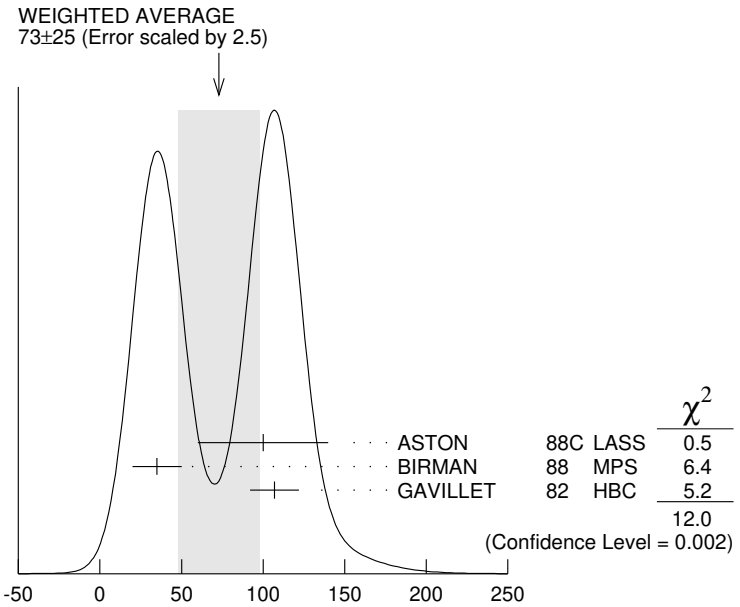


$f_1(1510)$ mass (MeV)

$f_1(1510)$ WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
73±25 OUR AVERAGE	Error includes scale factor of 2.5. See the ideogram below.				
100 ± 40		ASTON	88C	LASS	11 $K^- p \to K^0_S K^\pm \pi^\mp \Lambda$
35 ± 15	600	[3] BIRMAN	88	MPS	8 $\pi^- p \to K^+ \overline{K}^0 \pi^- n$
107 ± 15	271	GAVILLET	82	HBC	4.2 $K^- p \to \Lambda K K \pi$

[3] From partial wave analysis of $K^+ \overline{K}^0 \pi^-$ state.



$f_1(1510)$ width (MeV)

$f_1(1510)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$K \overline{K}^*(892) +$ c.c.	seen

$f_1(1510)$ REFERENCES

BAUER	93B	PR D48 3976	D.A. Bauer *et al.*	(SLAC)
AIHARA	88C	PR D38 1	H. Aihara *et al.*	(TPC-2γ Collab.)
ASTON	88C	PL B201 573	D. Aston *et al.*	(SLAC, NAGO, CINC, INUS) JP
BIRMAN	88	PRL 61 1557	A. Birman *et al.*	(BNL, FSU, IND, MASD) JP
GAVILLET	82	ZPHY C16 119	P. Gavillet *et al.*	(CERN, CDEF, PADO+)

OTHER RELATED PAPERS

ABELE	97G	PL B415 289	A. Abele *et al.*	
BARBERIS	97C	PL B413 225	D. Barberis *et al.*	(WA 102 Collab.)
CLOSE	97D	ZPHY C76 469	F.E. Close *et al.*	
KING	91	NPBPS B21 11	E. King *et al.*	(FSU, BNL+)
AIHARA	88C	PR D38 1	H. Aihara *et al.*	(TPC-2γ Collab.)
BITYUKOV	84	SJNP 39 735 Translated from YAF 39 1165.	S. Bityukov *et al.*	(SERP)