

# $f_1(1510)$

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

OMITTED FROM SUMMARY TABLE

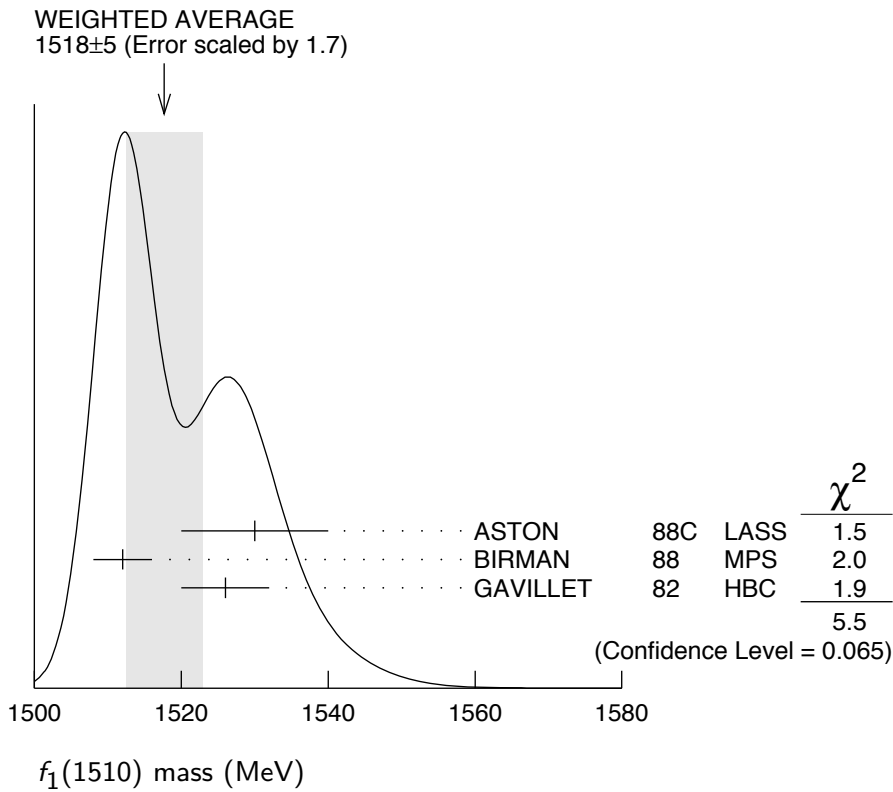
See the minireview under  $\eta(1405)$ .

## $f_1(1510)$ MASS

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

<sup>1</sup> From partial wave analysis of  $K^+ \bar{K}^0 \pi^-$  state.

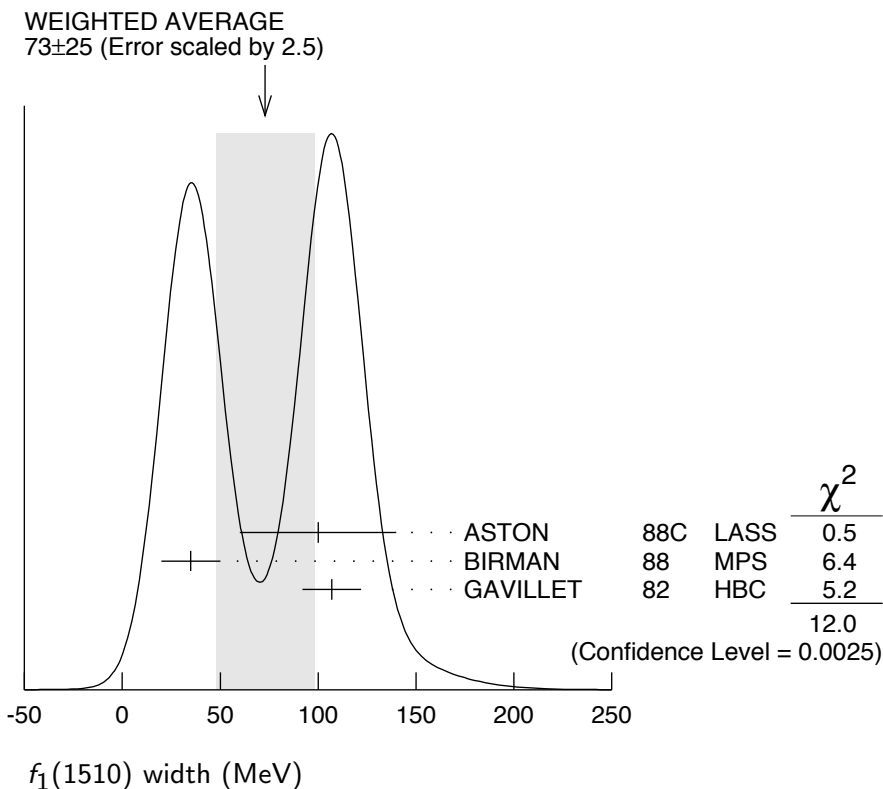
<sup>2</sup> Not seen by AIHARA 88C in the  $K_S^0 K^\pm \pi^\mp$  final state.



## $f_1(1510)$ WIDTH

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

<sup>3</sup> From partial wave analysis of  $K^+ \bar{K}^0 \pi^-$  state.



## $f_1(1510)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $K \bar{K}^*(892) + \text{c.c.}$	seen

## $f_1(1510)$ REFERENCES

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