

# $\phi_3(1850)$

$$I^G(J^{PC}) = 0^-(3^--)$$

## $\phi_3(1850)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b><math>1854 \pm 7</math> OUR AVERAGE</b>				
$1855 \pm 10$		ASTON	88E LASS	11 $K^- p \rightarrow K^- K^+ \Lambda$ , $K_S^0 K^\pm \pi^\mp \Lambda$
$1870^{+30}_{-20}$	430	ARMSTRONG	82 OMEG	18.5 $K^- p \rightarrow K^- K^+ \Lambda$
$1850 \pm 10$	123	ALHARRAN	81B HBC	8.25 $K^- p \rightarrow K \bar{K} \Lambda$

## $\phi_3(1850)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b><math>87^{+28}_{-23}</math> OUR AVERAGE</b> Error includes scale factor of 1.2.				
$64 \pm 31$		ASTON	88E LASS	11 $K^- p \rightarrow K^- K^+ \Lambda$ , $K_S^0 K^\pm \pi^\mp \Lambda$
$160^{+90}_{-50}$	430	ARMSTRONG	82 OMEG	18.5 $K^- p \rightarrow K^- K^+ \Lambda$
$80^{+40}_{-30}$	123	ALHARRAN	81B HBC	8.25 $K^- p \rightarrow K \bar{K} \Lambda$

## $\phi_3(1850)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $K \bar{K}$	seen
$\Gamma_2$ $K \bar{K}^*(892) + c.c.$	seen

## $\phi_3(1850)$ BRANCHING RATIOS

$\Gamma(K \bar{K}^*(892) + c.c.) / \Gamma(K \bar{K})$	DOCUMENT ID	TECN	COMMENT	$\Gamma_2/\Gamma_1$
<b><math>0.55^{+0.85}_{-0.45}</math></b>	ASTON	88E LASS	11 $K^- p \rightarrow K^- K^+ \Lambda$ , $K_S^0 K^\pm \pi^\mp \Lambda$	
$0.8 \pm 0.4$	ALHARRAN	81B HBC	8.25 $K^- p \rightarrow K \bar{K} \pi \Lambda$	

• • • We do not use the following data for averages, fits, limits, etc. • • •

## $\phi_3(1850)$ REFERENCES

ASTON	88E	PL B208 324	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS) IGJPC
ARMSTRONG	82	PL 110B 77	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+) JP
ALHARRAN	81B	PL 101B 357	S. Al-Harran <i>et al.</i>	(BIRM, CERN, GLAS+)

## OTHER RELATED PAPERS

CORDIER	82B	PL 110B 335	A. Cordier <i>et al.</i>	(LALO)
ASTON	80B	PL 92B 219	D. Aston	(BONN, CERN, EPOL, GLAS, LANC+)