

$\phi_3(1850)$

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

$\phi_3(1850)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1854 ± 7 OUR AVERAGE				
1855 ± 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 ± 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
87⁺²⁸₋₂₃ OUR AVERAGE Error includes scale factor of 1.2.				
64 ± 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 (Γ_i/Γ)
Γ_1 $K \bar{K}$	seen
Γ_2 $K \bar{K}^*(892) + c.c.$	seen

$\phi_3(1850)$ BRANCHING RATIOS

$\Gamma(K \bar{K}^*(892) + c.c.) / \Gamma(K \bar{K})$	Γ_2 / Γ_1
VALUE	DOCUMENT ID TECN COMMENT
0.55^{+0.85}_{-0.45}	ASTON 88E LASS 11 $K^- p \rightarrow K^- K^+ \Lambda$, $K_S^0 K^\pm \pi^\mp \Lambda$
• • • We do not use the following data for averages, fits, limits, etc. • • •	
0.8 ± 0.4	ALHARRAN 81B HBC 8.25 $K^- p \rightarrow K \bar{K} \pi \Lambda$

$\phi_3(1850)$ 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+)