

$\phi_3(1850)$

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

 $\phi_3(1850)$ 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 $K^- p \rightarrow K^- K^+ \Lambda$, $K_S^0 K^\pm \pi^\mp \Lambda$
0.8 ± 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	+Awaji, Biewz+	(SLAC, NAGO, CINC, INUS) IGJPC
ARMSTRONG	82	PL 110B 77	+Baubillier+	(BARI, BIRM, CERN, MILA, CURIN+) JP
ALHARRAN	81B	PL 101B 357	+Amirzadeh+	(BIRM, CERN, GLAS, MICH, CURIN)

OTHER RELATED PAPERS

CORDIER	82B	PL 110B 335	+Bisello, Bizot, Buon, Delcourt, Fayard+	(LALO)
ASTON	80B	PL 92B 219		(BONN, CERN, EPOL, GLAS, LANC, MCHS+)