

$f_2(2340)$

$$I^G(J^{PC}) = 0^+(2^{++})$$

 $f_2(2340)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
2339±55		¹ ETKIN 88	MPS	22 $\pi^- p \rightarrow \phi\phi n$
••• We do not use the following data for averages, fits, limits, etc. •••				
2350±7	80k	² UMAN 06	E835	5.2 $\bar{p}p \rightarrow \eta\eta\pi^0$
2392±10		BOOTH 86	OMEG	85 $\pi^- Be \rightarrow 2\phi Be$
2360±20		LINDENBAUM 84	RVUE	

¹ Includes data of ETKIN 85. The percentage of the resonance going into $\phi\phi 2^{++} S_2$, D_2 , and D_0 is 37 ± 19 , 4^{+12}_{-4} , and 59^{+21}_{-19} , respectively.

² Statistical error only.

 $f_2(2340)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
319⁺₆₉⁸¹		³ ETKIN 88	MPS	22 $\pi^- p \rightarrow \phi\phi n$
••• We do not use the following data for averages, fits, limits, etc. •••				
218±16	80k	⁴ UMAN 06	E835	5.2 $\bar{p}p \rightarrow \eta\eta\pi^0$
198±50		BOOTH 86	OMEG	85 $\pi^- Be \rightarrow 2\phi Be$
150 ⁺ ₅₀ ¹⁵⁰		LINDENBAUM 84	RVUE	

³ Includes data of ETKIN 85.

⁴ Statistical error only.

 $f_2(2340)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $\phi\phi$	seen
Γ_2 $\eta\eta$	seen

 $f_2(2340)$ BRANCHING RATIOS

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$	Γ_2/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
seen	UMAN 06	E835	5.2 $\bar{p}p \rightarrow \eta\eta\pi^0$

 $f_2(2340)$ REFERENCES

UMAN 06	PR D73 052009	I. Uman <i>et al.</i>	(FNAL E835)
ETKIN 88	PL B201 568	A. Etkin <i>et al.</i>	(BNL, CUNY)
BOOTH 86	NP B273 677	P.S.L. Booth <i>et al.</i>	(LIVP, GLAS, CERN)
ETKIN 85	PL 165B 217	A. Etkin <i>et al.</i>	(BNL, CUNY)
LINDENBAUM 84	CNPP 13 285	S.J. Lindenbaum	(CUNY)