$f_2(2340)$

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

$f_2(2340)$ 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 $\overline{p}p \rightarrow \eta\eta\pi^0$
2392±10		BOOTH	86	OMEG	85 π^- 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*
$\mathbf{319^{+\ 81}_{-\ 69}}$		[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 $\overline{p}p \rightarrow \eta\eta\pi^0$
198± 50		BOOTH	86	OMEG	85 π^- Be $\rightarrow 2\phi$ Be
$150^{+150}_{-\ 50}$		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 $\overline{p}p \rightarrow \eta\eta\pi^0$

$f_2(2340)$ REFERENCES

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

OTHER RELATED PAPERS

ANISOVICH	05	JETPL 80 715	V.V. Anisovich	
		Translated from ZETFP 80 845.		
ANISOVICH	05A	JETPL 81 417	V.V. Anisovich, A.V. Sarantsev	
		Translated from ZETFP 81 531.		
ANISOVICH	05C	IJMP A20 6327	V.V. Anisovich, M.A. Matveev, A.V. Sarantsev	
BUGG	04A	EPJ C36 161	D.V. Bugg	
LONGACRE	04	PR D70 094041	R.S. Longacre, S.J. Lindenbaum	
BOLONKIN	00	JETPL 72 166	B.V. Bolonkin *et al.*	
		Translated from ZETFP 72 240.		
ANISOVICH	99D	PL B452 180	A.V. Anisovich *et al.*	
Also		NP A651 253	A.V. Anisovich *et al.*	
ANISOVICH	99F	NP A651 253	A.V. Anisovich *et al.*	
LANDBERG	96	PR D53 2839	C. Landberg *et al.*	(BNL, CUNY, RPI)
GREEN	86	PRL 56 1639	D.R. Green *et al.*	(FNAL, ARIZ, FSU+)
BOOTH	84	NP B242 51	P.S.L. Booth *et al.*	(LIVP, GLAS, CERN)
EISENHAND...	75	NP B96 109	E. Eisenhandler *et al.*	(LOQM, LIVP, DARE+)