$f_2(2300)$

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

$f_2(2300)$ MASS

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
2297±28	[1] ETKIN	88	MPS	22 $\pi^- p \to \phi\phi n$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
2327± 9±6	ABE	04	BELL	10.6 $e^+e^- \to e^+e^-K^+K^-$
2240±15	ANISOVICH	00J	SPEC	$p\overline{p} \to \pi^0\pi^0\eta$
2231±10	BOOTH	86	OMEG	85 π^- Be $\to 2\phi$ Be
2220^{+90}_{-20}	LINDENBAUM	84	RVUE	
2320±40	ETKIN	82	MPS	22 $\pi^- p \to 2\phi n$

[1] Includes data of ETKIN 85. The percentage of the resonance going into $\phi\phi$ 2^{++} S_2, D_2, and D_0 is 6^{+15}_{-5}, 25^{+18}_{-14}, and 69^{+16}_{-27}, respectively.

$f_2(2300)$ WIDTH

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
149±41	[2] ETKIN	88	MPS	22 $\pi^- p \to \phi\phi n$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
275±36±20	ABE	04	BELL	10.6 $e^+e^- \to e^+e^-K^+K^-$
241±30	ANISOVICH	00J	SPEC	$p\overline{p} \to \pi^0\pi^0\eta$
133±50	BOOTH	86	OMEG	85 π^- Be $\to 2\phi$ Be
200±50	LINDENBAUM	84	RVUE	
220±70	ETKIN	82	MPS	22 $\pi^- p \to 2\phi n$

[2] Includes data of ETKIN 85.

$f_2(2300)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$\phi\phi$	seen
Γ_2	$K\overline{K}$	seen
Γ_3	$\gamma\gamma$	seen

$f_2(2300)$ $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

$\Gamma(K\overline{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$ **$\Gamma_2\Gamma_3/\Gamma$**

VALUE (eV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
44±6±12	[3] ABE	04	BELL	10.6 $e^+e^- \to e^+e^-K^+K^-$

[3] Assuming spin 2.

$f_2(2300)$ REFERENCES

ABE	04	EPJ C32 323	K. Abe *et al.*	(BELLE Collab.)
ANISOVICH	00J	PL B491 47	A.V. Anisovich *et al.*	
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)
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ETKIN	82	PRL 49 1620	A. Etkin *et al.*	(BNL, CUNY)

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