

**$f_2(2300)$** 

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

 **$f_2(2300)$  MASS**

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

<sup>1</sup>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
<b>149±41</b>	<sup>2</sup> ETKIN	88	MPS 22 $\pi^- p \rightarrow \phi \phi n$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
275 ± 36 ± 20	ABE	04	BELL 10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$
241 ± 30	ANISOVICH	00J	SPEC $p\bar{p} \rightarrow \pi^0 \pi^0 \eta$
133 ± 50	BOOTH	86	OMEG 85 $\pi^- Be \rightarrow 2\phi Be$
200 ± 50	LINDENBAUM	84	RVUE
220 ± 70	ETKIN	82	MPS 22 $\pi^- p \rightarrow 2\phi n$

<sup>2</sup>Includes data of ETKIN 85.

 **$f_2(2300)$  DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $\phi\phi$	seen
$\Gamma_2$ $K\bar{K}$	seen
$\Gamma_3$ $\gamma\gamma$	seen

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

$\Gamma(K\bar{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	$\Gamma_2\Gamma_3/\Gamma$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
44 ± 6 ± 12	<sup>3</sup> ABE	04	BELL 10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$	

<sup>3</sup>Assuming spin 2.

## $f_2(2300)$ REFERENCES

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

## OTHER RELATED PAPERS

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