

# $f_2(2340)$

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

## $f_2(2340)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>2339 ± 55</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. • • •				
2350 ± 7	80k	<sup>2</sup> 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	

<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  $37 \pm 19$ ,  $4_{-4}^{+12}$ , and  $59_{-19}^{+21}$ , respectively.

<sup>2</sup> Statistical error only.

## $f_2(2340)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>319<sup>+</sup><sub>-</sub> 81 69</b>		<sup>3</sup> 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	<sup>4</sup> 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 <sup>+</sup> <sub>-</sub> 150 50		LINDENBAUM 84	RVUE	

<sup>3</sup> Includes data of ETKIN 85.

<sup>4</sup> Statistical error only.

## $f_2(2340)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $\phi\phi$	seen
$\Gamma_2$ $\eta\eta$	seen

## $f_2(2340)$ BRANCHING RATIOS

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$	$\Gamma_2/\Gamma$		
VALUE	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	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)

————— **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 <i>et al.</i>	
		Translated from ZETFP	72 240.	
ANISOVICH	99D	PL B452 180	A.V. Anisovich <i>et al.</i>	
Also		NP A651 253	A.V. Anisovich <i>et al.</i>	
ANISOVICH	99F	NP A651 253	A.V. Anisovich <i>et al.</i>	
LANDBERG	96	PR D53 2839	C. Landberg <i>et al.</i>	(BNL, CUNY, RPI)
GREEN	86	PRL 56 1639	D.R. Green <i>et al.</i>	(FNAL, ARIZ, FSU+)
BOOTH	84	NP B242 51	P.S.L. Booth <i>et al.</i>	(LIVP, GLAS, CERN)
EISENHAND...	75	NP B96 109	E. Eisenhandler <i>et al.</i>	(LOQM, LIVP, DARE+)

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