

**$f_2(2340)$** 

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

 **$f_2(2340)$  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  $37 \pm 19$ ,  $4^{+12}_{-4}$ , and  $59^{+21}_{-19}$ , respectively.

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

 **$f_2(2340)$  WIDTH**

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

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

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

 **$f_2(2340)$  DECAY MODES**

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