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

f₂(2340) MASS

VALUE (MeV) **EVTS** DOCUMENT ID TECN COMMENT

2345 + 50 OUR AVERAGE

 $2362 {+}\, {31}\, {+}\, {140} \\ {-}\, 30 \, {-}\, 63$

¹ ABLIKIM 5.5k

13N BES3

 2339 ± 55

² ETKIN

88 **MPS**

• • • We do not use the following data for averages, fits, limits, etc. • • •

 2350 ± 7

80k

³ UMAN

E835

 $5.2 \overline{p}p \rightarrow \eta \eta \pi^0$

 2392 ± 10 2360 ± 20 **BOOTH**

OMEG 85 π^- Be $\rightarrow 2\phi$ Be **RVUE**

LINDENBAUM 84

f₂(2340) WIDTH

VALUE (MeV) DOCUMENT ID TECN

$322 + 70 \atop - 60$ OUR AVERAGE

 $334 + 62 + 165 \\ -54 - 100$

5.5k

⁴ ABLIKIM

13N BES3

 $e^+e^- \rightarrow J/\psi \rightarrow \gamma\eta\eta$

 $319^{+}_{-} \begin{array}{l} 81\\ 69 \end{array}$

⁵ ETKIN

MPS

 $22 \pi^- p \rightarrow \phi \phi n$

• • • We do not use the following data for averages, fits, limits, etc. • • •

 218 ± 16 198 ± 50 80k

⁶ UMAN **BOOTH**

86

 $5.2 \overline{p}p \rightarrow \eta \eta \pi^0$ OMEG 85 π^- Be $\rightarrow 2\phi$ Be

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 150^{+150}_{-50}

LINDENBAUM 84 **RVUE**

f₂(2340) DECAY MODES

	Mode	Fraction (Γ_i/Γ)
$\overline{\Gamma_1}$	$\phi\phi$	seen
Γ ₂	$\eta\eta$	seen

¹ From partial wave analysis including all possible combinations of 0^{++} , 2^{++} , and 4^{++}

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.

³Statistical error only.

⁴ From partial wave analysis including all possible combinations of 0^{++} , 2^{++} , and 4^{++}

⁵ Includes data of ETKIN 85.

⁶ Statistical error only.

f_2 (2340) BRANCHING RATIOS

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$ VALUE seen			<u>DOCUMENT ID</u> UMAN	06	<u>TECN</u> E835	$\frac{\Gamma_2/\Gamma}{\frac{COMMENT}{5.2\;\overline{p}p\to\;\eta\eta\pi^0}}$			
f ₂ (2340) REFERENCES									
ABLIKIM UMAN ETKIN BOOTH ETKIN LINDENBAUM	13N 06 88 86 85 84	PR D87 092009 PR D73 052009 PL B201 568 NP B273 677 PL 165B 217 CNPP 13 285	Ablikim M. et I. Uman et al. A. Etkin et al. P.S.L. Booth o A. Etkin et al. S.J. Lindenbau	et al.		(BES III Collab.) (FNAL E835) (BNL, CUNY) (LIVP, GLAS, CERN) (BNL, CUNY) (CUNY)			

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