

$f_2(2010)$ $I^G(J^{PC}) = 0^+(2^{++})$ **$f_2(2010)$ MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2011$^{+62}_{-76}$	1 ETKIN 88 MPS		$22\pi^- p \rightarrow \phi\phi n$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
2062 $\pm 6^{+10}_{-7}$	2 ABLIKIM 22AS BES3		$J/\psi(1S) \rightarrow \gamma\eta\eta'$
2005 ± 12	VLADIMIRSK...06 SPEC		$40\pi^- p \rightarrow K_S^0 K_S^0 n$
2049 $^{+35}_{-24}$	3 LONGACRE 04 RVUE		$22\pi^- p \rightarrow \phi\phi n$, 450 $pp \rightarrow p_f 4\pi p_s$
1980 ± 20	4 BOLONKIN 88 SPEC		$40\pi^- p \rightarrow K_S^0 K_S^0 n$
2050 $^{+90}_{-50}$	ETKIN 85 MPS		$22\pi^- p \rightarrow 2\phi n$
2120 $^{+20}_{-120}$	LINDENBAUM 84 RVUE		
2160 ± 50	ETKIN 82 MPS		$22\pi^- p \rightarrow 2\phi n$

¹ Includes data of ETKIN 85. The percentage of the resonance going into $\phi\phi 2^{++} S_2$, D_2 , and D_0 is 98^{+1}_{-3} , 0^{+1}_{-0} , and 2^{+2}_{-1} , respectively.

² From a Breit-Wigner fit involving 9 resonances and a resonating exotic $\eta_1(1855) \rightarrow \eta\eta' P$ -wave.

³ From a four pole K-matrix reanalysis of ETKIN 88 and BARBERIS 00C data.

⁴ Statistically very weak, only 1.4 s.d.

 $f_2(2010)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
202$^{+67}_{-62}$	5 ETKIN 88 MPS		$22\pi^- p \rightarrow \phi\phi n$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
165 $\pm 17^{+10}_{-5}$	6 ABLIKIM 22AS BES3		$J/\psi(1S) \rightarrow \gamma\eta\eta'$
209 ± 32	VLADIMIRSK...06 SPEC		$40\pi^- p \rightarrow K_S^0 K_S^0 n$
567 $^{+64}_{-71}$	7 LONGACRE 04 RVUE		$22\pi^- p \rightarrow \phi\phi n$, 450 $pp \rightarrow p_f 4\pi p_s$
145 ± 50	8 BOLONKIN 88 SPEC		$40\pi^- p \rightarrow K_S^0 K_S^0 n$
200 $^{+160}_{-50}$	ETKIN 85 MPS		$22\pi^- p \rightarrow 2\phi n$
300 $^{+150}_{-50}$	LINDENBAUM 84 RVUE		
310 ± 70	ETKIN 82 MPS		$22\pi^- p \rightarrow 2\phi n$

⁵ Includes data of ETKIN 85.

⁶ From a Breit-Wigner fit involving 9 resonances and a resonating exotic $\eta_1(1855) \rightarrow \eta\eta' P$ -wave.

⁷ From a four pole K-matrix reanalysis of ETKIN 88 and BARBERIS 00C data.

⁸ Statistically very weak, only 1.4 s.d.

$f_2(2010)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \phi\phi$	seen
$\Gamma_2 \quad K\bar{K}$	seen

 $f_2(2010)$ BRANCHING RATIOS

$\Gamma(K\bar{K})/\Gamma_{\text{total}}$	Γ_2/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
seen	VLADIMIRSK...06	SPEC	$40 \pi^- p \rightarrow K_S^0 K_S^0 n$

 $f_2(2010)$ REFERENCES

ABLIKIM	22AS	PR D106 072012	M. Ablikim <i>et al.</i>	(BESIII Collab.)
Also		PR D107 079901 (errat.)	M. Ablikim <i>et al.</i>	(BESIII Collab.)
VLADIMIRSK...	06	PAN 69 493	V.V. Vladimirsy <i>et al.</i>	(ITEP, Moscow)
		Translated from YAF 69 515.		
LONGACRE	04	PR D70 094041	R.S. Longacre, S.J. Lindenbaum	(BNL, CUNY)
BARBERIS	00C	PL B471 440	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BOLONKIN	88	NP B309 426	B.V. Bolonkin <i>et al.</i>	(ITEP, SERP)
ETKIN	88	PL B201 568	A. Etkin <i>et al.</i>	(BNL, CUNY)
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)
Also		Brighton Conf. 351	S.J. Lindenbaum	(BNL, CUNY)