NODE=M106

$f_2(2010)$

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

$f_2(2010)$ MASS

NODE=M106M

NODE=M106M

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 $\pi^- p \rightarrow K^0_S K^0_S n$
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 $\pi^- p \rightarrow K^0_S K^0_S n$
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.

NODE=M106M;LINKAGE=C

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

NODE=M106M;LINKAGE=A

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

NODE=M106M;LINKAGE=B

[4] Statistically very weak, only 1.4 s.d.

NODE=M106M;LINKAGE=E

$f_2(2010)$ WIDTH

NODE=M106W

NODE=M106W

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 $\pi^- p \rightarrow K^0_S K^0_S n$
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 $\pi^- p \rightarrow K^0_S K^0_S n$
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.

NODE=M106W;LINKAGE=C

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

NODE=M106W;LINKAGE=A

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

NODE=M106W;LINKAGE=B

[8] Statistically very weak, only 1.4 s.d.

NODE=M106W;LINKAGE=E

$f_2(2010)$ DECAY MODES

NODE=M106215;NODE=M106

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$\phi\phi$	seen	DESIG=1;OUR EST;→ UNCHECKED ←
Γ_2	$K\overline{K}$	seen	DESIG=2

$f_2(2010)$ BRANCHING RATIOS

NODE=M106230

$\Gamma(K\overline{K})/\Gamma_{total}$ — **Γ_2/Γ**

NODE=M106R01

VALUE	DOCUMENT ID		TECN	COMMENT
seen	VLADIMIRSK...06		SPEC	40 $\pi^- p \rightarrow K^0_S K^0_S n$

NODE=M106R01

$f_2(2010)$ REFERENCES

NODE=M106

ABLIKIM	22AS	PR D106 072012	M. Ablikim *et al.*	(BESIII Collab.)	REFID=61891
Also		PR D107 079901 (errat.)	M. Ablikim *et al.*	(BESIII Collab.)	REFID=62033
VLADIMIRSK...	06	PAN 69 493	V.V. Vladimirsky *et al.*	(ITEP, Moscow)	REFID=51191
		Translated from YAF 69 515.			
LONGACRE	04	PR D70 094041	R.S. Longacre, S.J. Lindenbaum	(BNL, CUNY)	REFID=50341
BARBERIS	00C	PL B471 440	D. Barberis *et al.*	(WA 102 Collab.)	REFID=47959
BOLONKIN	88	NP B309 426	B.V. Bolonkin *et al.*	(ITEP, SERP)	REFID=40580
ETKIN	88	PL B201 568	A. Etkin *et al.*	(BNL, CUNY)	REFID=40285
ETKIN	85	PL 165B 217	A. Etkin *et al.*	(BNL, CUNY)	REFID=21871
LINDENBAUM	84	CNPP 13 285	S.J. Lindenbaum	(CUNY)	REFID=21869
ETKIN	82	PRL 49 1620	A. Etkin *et al.*	(BNL, CUNY)	REFID=21866
Also		Brighton Conf. 351	S.J. Lindenbaum	(BNL, CUNY)	REFID=21867