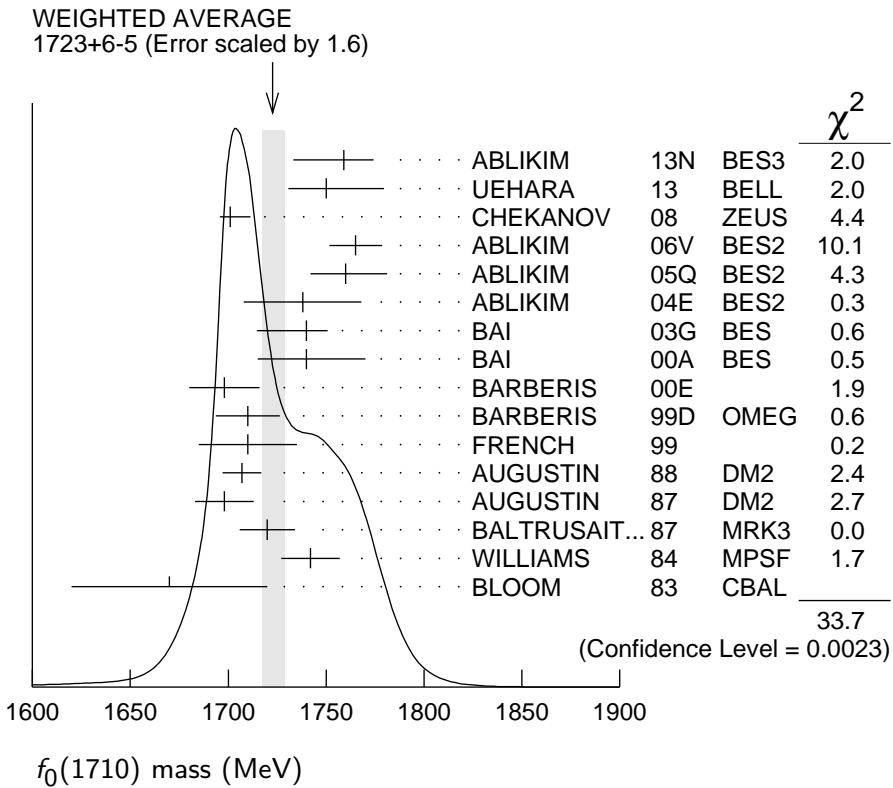


- 19 No $J^P C$ determination.
 20 No $J^P C$ determination, width not determined.
 21 From a fit to the 0^+ partial wave.
 22 ALDE 92D combines all the GAMS-2000 data.
 23 $J^P = 2^+$, superseded by FRENCH 99.
 24 From an analysis ignoring interference with $f'_2(1525)$.
 25 From an analysis including interference with $f'_2(1525)$.
 26 Superseded by ALDE 92D.
 27 Uses MRK3 data. From a partial-wave analysis of data using a K-matrix formalism with 5 poles, but assuming spin 2. Fit with constrained inelasticity.
 28 $J^P = 2^+$ preferred.
 29 From fit neglecting nearby $f'_2(1525)$. Replaced by BLOOM 83.
 30 Superseded by LONGACRE 86.



$f_0(1710)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
139 ± 8 OUR AVERAGE		Error includes scale factor of 1.1.		
172 ± 10	+32 -16	5.5k	1 ABLIKIM	13N BES3 $e^+ e^- \rightarrow J/\psi \rightarrow \gamma\eta\eta$
139	+ 11 - 12	+ 96 - 50	UEHARA	13 BELL $\gamma\gamma \rightarrow K_S^0 K_S^0$
100 ± 24	+ 7 - 22	4k	2 CHEKANOV	08 ZEUS $e p \rightarrow K_S^0 K_S^0 X$
145 ± 8	± 69		ABLIKIM	06V BES2 $e^+ e^- \rightarrow J/\psi \rightarrow \gamma\pi^+\pi^-$
125 ± 25	+ 10 - 15		3 ABLIKIM	05Q BES2 $\psi(2S) \rightarrow \gamma\pi^+\pi^- K^+ K^-$
125 ± 20			ABLIKIM	04E BES2 $J/\psi \rightarrow \omega K^+ K^-$

200	± 100	BURKE	82	MRK2	$J/\psi \rightarrow \gamma 2\rho$
220	$+100$ -70	27,28 EDWARDS	82D	CBAL	$J/\psi \rightarrow \gamma 2\eta$
200	$+156$ -9	29 ETKIN	82B	MPS	$23 \pi^- p \rightarrow n2K_S^0$

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

² In the SU(3) based model with a specific interference pattern of the $f_2(1270)$, $a_2^0(1320)$, and $f'_2(1525)$ mesons incoherently added to the $f_0(1710)$ and non-resonant background.

³ Breit-Wigner width.

⁴ $J^P = 0^+$.

⁵ T-matrix pole.

⁶ Supersedes BARBERIS 99 and BARBERIS 99B.

⁷ $J^P = 0^+$, supersedes by ARMSTRONG 89D.

⁸ No $J^P C$ determination.

⁹ $J^P = 2^+$.

¹⁰ No $J^P C$ determination.

¹¹ Systematic errors not estimated.

¹² This state may be different from $f_0(1710)$, see CLOSE 05.

¹³ (Solution I)

¹⁴ K-matrix pole, assuming $J^P = 0^+$, from combined analysis of $\pi^- p \rightarrow \pi^0 \pi^0 n$, $\pi^- p \rightarrow K \bar{K} n$, $\pi^+ \pi^- \rightarrow \pi^+ \pi^-$, $\bar{p} p \rightarrow \pi^0 \pi^0 \pi^0$, $\pi^0 \eta \eta$, $\pi^0 \pi^0 \eta$, $\pi^+ \pi^- \pi^0$, $K^+ K^- \pi^0$, $K_S^0 K_S^0 \pi^0$, $K^+ K_S^0 \pi^-$ at rest, $\bar{p} n \rightarrow \pi^- \pi^- \pi^+$, $K_S^0 K^- \pi^0$, $K_S^0 K_S^0 \pi^-$ at rest.

¹⁵ (Solution I)

¹⁶ Decaying to $f_0(1370) \pi \pi$.

¹⁷ $J^P = 0^+$.

¹⁸ Not seen by AMSLER 02.

¹⁹ T-matrix pole, assuming $J^P = 0^+$

²⁰ No $J^P C$ determination.

²¹ From a fit to the 0^+ partial wave.

²² ALDE 92D combines all the GAMS-2000 data.

²³ $J^P = 2^+$, (0^+ excluded).

²⁴ From an analysis ignoring interference with $f'_2(1525)$.

²⁵ From an analysis including interference with $f'_2(1525)$.

²⁶ Uses MRK3 data. From a partial-wave analysis of data using a K-matrix formalism with 5 poles, but assuming spin 2. Fit with constrained inelasticity.

²⁷ $J^P = 2^+$ preferred.

²⁸ From fit neglecting nearby $f'_2(1525)$. Replaced by BLOOM 83.

²⁹ From an amplitude analysis of the $K_S^0 K_S^0$ system, superseded by LONGACRE 86.

$f_0(1710)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $K \bar{K}$	seen
Γ_2 $\eta \eta$	seen
Γ_3 $\pi \pi$	seen
Γ_4 $\gamma \gamma$	
Γ_5 $\omega \omega$	seen

AMSLER	02	EPJ C23 29	C. Amsler <i>et al.</i>
ANISOVICH	02D	PAN 65 1545 Translated from YAF 65 1583.	V.V. Anisovich <i>et al.</i>
NICHITIU	02	PL B545 261	F. Nichitiu <i>et al.</i>
BAI	00A	PL B472 207	J.Z. Bai <i>et al.</i>
BARATE	00E	PL B472 189	R. Barate <i>et al.</i>
BARBERIS	00E	PL B479 59	D. Barberis <i>et al.</i>
ANISOVICH	99B	PL B449 154	A.V. Anisovich <i>et al.</i>
BARBERIS	99	PL B453 305	D. Barberis <i>et al.</i>
BARBERIS	99B	PL B453 316	D. Barberis <i>et al.</i>
BARBERIS	99D	PL B462 462	D. Barberis <i>et al.</i>
FRENCH	99	PL B460 213	B. French <i>et al.</i>
ANISOVICH	98B	SPU 41 419 Translated from UFN 168 481.	V.V. Anisovich <i>et al.</i>
BAI	98H	PRL 81 1179	J.Z. Bai <i>et al.</i>
BARKOV	98	JETPL 68 764	B.P. Barkov <i>et al.</i>
ABREU	96C	PL B379 309	P. Abreu <i>et al.</i>
BAI	96C	PRL 77 3959	J.Z. Bai <i>et al.</i>
BALOSHIN	95	PAN 58 46 Translated from YAF 58 50.	O.N. Baloshin <i>et al.</i>
BUGG	95	PL B353 378	D.V. Bugg <i>et al.</i>
ARMSTRONG	93C	PL B307 394	T.A. Armstrong <i>et al.</i>
BREAKSTONE	93	ZPHY C58 251	A.M. Breakstone <i>et al.</i>
ALDE	92D	PL B284 457	D.M. Alde <i>et al.</i>
Also		SJNP 54 451	D.M. Alde <i>et al.</i>
ARMSTRONG	91	Translated from YAF 54 745.	
PROKOSHKIN	91	ZPHY C51 351	T.A. Armstrong <i>et al.</i>
PROKOSHKIN	91	SPD 36 155 Translated from DANS 316 900.	Y.D. Prokoshkin
ALBRECHT	90G	ZPHY C48 183	H. Albrecht <i>et al.</i>
ARMSTRONG	89D	PL B227 186	T.A. Armstrong, M. Benayoun
BEHREND	89C	ZPHY C43 91	H.J. Behrend <i>et al.</i>
AUGUSTIN	88	PRL 60 2238	J.E. Augustin <i>et al.</i>
BOLONKIN	88	NP B309 426	B.V. Bolonkin <i>et al.</i>
FALVARD	88	PR D38 2706	A. Falvard <i>et al.</i>
AUGUSTIN	87	ZPHY C36 369	J.E. Augustin <i>et al.</i>
BALTRUSAIT...	87	PR D35 2077	R.M. Baltrusaitis <i>et al.</i>
ALDE	86C	PL B182 105	D.M. Alde <i>et al.</i>
LONGACRE	86	PL B177 223	R.S. Longacre <i>et al.</i>
ALTHOFF	85B	ZPHY C29 189	M. Althoff <i>et al.</i>
WILLIAMS	84	PR D30 877	E.G.H. Williams <i>et al.</i>
BLOOM	83	ARNS 33 143	E.D. Bloom, C. Peck
BURKE	82	PRL 49 632	D.L. Burke <i>et al.</i>
EDWARDS	82D	PRL 48 458	C. Edwards <i>et al.</i>
ETKIN	82B	PR D25 1786	A. Etkin <i>et al.</i>
ETKIN	82C	PR D25 2446	A. Etkin <i>et al.</i>
