


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

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f0(600) T-MATRIX POLE \sqrt{s}

Note that $\Gamma \approx 2 \operatorname{Im}(\sqrt{s_{\text{pole}}})$.

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
(400–1200)–i(300–500) OUR ESTIMATE			
• • • We do not use the following data for averages, fits, limits, etc. • • •			
(541 ± 39)–i(252 ± 42)	1 ABLIKIM	04A BES2	$J/\psi \rightarrow \omega \pi^+ \pi^-$
(528 ± 32)–i(207 ± 23)	2 GALLEGO	04 RVUE	Compilation
(440 ± 8)–i(212 ± 15)	3 PELAEZ	04A RVUE	$\pi \pi \rightarrow \pi \pi$
(533 ± 25)–i(247 ± 25)	4 BUGG	03 RVUE	
532 – i272	BLACK	01 RVUE	$\pi^0 \pi^0 \rightarrow \pi^0 \pi^0$
(470 ± 30)–i(295 ± 20)	5 COLANGELO	01 RVUE	$\pi \pi \rightarrow \pi \pi$
(535 ⁺⁴⁸ ₋₃₆)–i(155 ⁺⁷⁶ ₋₅₃)	6 ISHIDA	01	$\Upsilon(3S) \rightarrow \Upsilon \pi \pi$
610 ± 14 – i620 ± 26	7 SUROVTSEV	01 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
(558 ⁺³⁴ ₋₂₇)–i(196 ⁺³² ₋₄₁)	ISHIDA	00B	$p \bar{p} \rightarrow \pi^0 \pi^0 \pi^0$
445 – i235	HANNAH	99 RVUE	π scalar form factor
(523 ± 12)–i(259 ± 7)	KAMINSKI	99 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}, \sigma \sigma$
442 – i 227	OLLER	99 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
469 – i203	OLLER	99B RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
445 – i221	OLLER	99C RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}, \eta \eta$
(1530 ⁺⁹⁰ ₋₂₅₀)–i(560 ± 40)	ANISOVICH	98B RVUE	Compilation
420 – i 212	LOCHER	98 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
(602 ± 26)–i(196 ± 27)	8 ISHIDA	97	$\pi \pi \rightarrow \pi \pi$
(537 ± 20)–i(250 ± 17)	9 KAMINSKI	97B RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}, 4\pi$
470 – i250	10,11 TORNQVIST	96 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}, K \pi, \eta \pi$
~ (1100 – i300)	AMSLER	95B CBAR	$\bar{p} p \rightarrow 3\pi^0$
400 – i500	11,12 AMSLER	95D CBAR	$\bar{p} p \rightarrow 3\pi^0$
1100 – i137	11,13 AMSLER	95D CBAR	$\bar{p} p \rightarrow 3\pi^0$
387 – i305	11,14 JANSEN	95 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
525 – i269	15 ACHASOV	94 RVUE	$\pi \pi \rightarrow \pi \pi$
(506 ± 10)–i(247 ± 3)	KAMINSKI	94 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
370 – i356	16 ZOU	94B RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
408 – i342	11,16 ZOU	93 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
870 – i370	11,17 AU	87 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
470 – i208	18 BEVEREN	86 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}, \eta \eta, \dots$
(750 ± 50)–i(450 ± 50)	19 ESTABROOKS	79 RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
(660 ± 100)–i(320 ± 70)	PROTOPOP...	73 HBC	$\pi \pi \rightarrow \pi \pi, K \bar{K}$
650 – i370	20 BASDEVANT	72 RVUE	$\pi \pi \rightarrow \pi \pi$

- ¹ From a mean of six different analyses and $f_0(600)$ parameterizations.
² Using data on $\psi(2S) \rightarrow J/\psi\pi\pi$ from BAI 00E and on $\gamma(nS) \rightarrow \gamma(mS)\pi\pi$ from BUTLER 94B and ALEXANDER 98.
³ Reanalysis of data from PROTOPOPESCU 73, ESTABROOKS 74, GRAYER 74, and COHEN 80 in the unitarized ChPT model.
⁴ From a combined analysis of HYAMS 73, AUGUSTIN 89, AITALA 01B, and PISLAK 01.
⁵ From a phase-shift analysis of HYAMS 73 and PROTOPOPESCU 73 data.
⁶ A similar analysis (KOMADA 01) finds $(580^{+79}) - i(190^{+107})$ MeV.
⁷ Coupled channel reanalysis of BATON 70, BENSINGER 71, BAILLON 72, HYAMS 73, HYAMS 75, ROSSELET 77, COHEN 80, and ETKIN 82B using the uniformizing variable.
⁸ Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.
⁹ Average and spread of 4 variants ("up" and "down") of KAMINSKI 97B 3-channel model.
¹⁰ Uses data from BEIER 72B, OCHS 73, HYAMS 73, GRAYER 74, ROSSELET 77, CASON 83, ASTON 88, and ARMSTRONG 91B. Coupled channel analysis with flavor symmetry and all light two-pseudoscalars systems.
¹¹ Demonstrates explicitly that $f_0(600)$ and $f_0(1370)$ are two different poles.
¹² Coupled channel analysis of $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta\eta$ and $\pi^0\pi^0\eta$ on sheet II.
¹³ Coupled channel analysis of $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta\eta$ and $\pi^0\pi^0\eta$ on sheet III.
¹⁴ Analysis of data from FALVARD 88.
¹⁵ Analysis of data from OCHS 73, ESTABROOKS 75, ROSSELET 77, and MUKHIN 80.
¹⁶ Analysis of data from OCHS 73, GRAYER 74, and ROSSELET 77.
¹⁷ Analysis of data from OCHS 73, GRAYER 74, BECKER 79, and CASON 83.
¹⁸ Coupled-channel analysis using data from PROTOPOPESCU 73, HYAMS 73, HYAMS 75, GRAYER 74, ESTABROOKS 74, ESTABROOKS 75, FROGGATT 77, CORDEN 79, BISWAS 81.
¹⁹ Analysis of data from APEL 73, GRAYER 74, CASON 76, PAWLICKI 77. Includes spread and errors of 4 solutions.
²⁰ Analysis of data from BATON 70, BENSINGER 71, COLTON 71, BAILLON 72, PROTOPOPESCU 73, and WALKER 67.

$f_0(600)$ BREIT-WIGNER MASS OR K-MATRIX POLE PARAMETERS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
(400–1200) OUR ESTIMATE			
513 ± 32	21 MURAMATSU 02	CLEO $e^+e^- \approx 10$ GeV	
• • • We do not use the following data for averages, fits, limits, etc. • • •			
$478^{+24}_{-23} \pm 17$	AITALA 01B E791	$D^+ \rightarrow \pi^-\pi^+\pi^+$	
563 ± 58	ISHIDA 01	$\gamma(3S) \rightarrow \gamma\pi\pi$	
555	ASNER 00	$\tau^- \rightarrow \pi^-\pi^0\pi^0\nu_\tau$	
540 ± 36	ISHIDA 00B	$p\bar{p} \rightarrow \pi^0\pi^0\pi^0$	
750 ± 4	ALEKSEEV 99	$1.78\pi^- p_{\text{polar}} \rightarrow \pi^-\pi^+n$	
744 ± 5	ALEKSEEV 98	$1.78\pi^- p_{\text{polar}} \rightarrow \pi^-\pi^+n$	
759 ± 5	TROYAN 98	$5.2np \rightarrow np\pi^+\pi^-$	
780 ± 30	ALDE 97	$450pp \rightarrow pp\pi^0\pi^0$	
585 ± 20	ISHIDA 97	$\pi\pi \rightarrow \pi\pi$	
761 ± 12	SVEC 96	$6-17\pi N_{\text{polar}} \rightarrow \pi^+\pi^-N$	
~ 860	27,28 TORNQVIST 96	$\pi\pi \rightarrow \pi\pi, K\bar{K}, K\pi, \eta\pi$	
1165 ± 50	29,30 ANISOVICH 95	$\pi^-p \rightarrow \pi^0\pi^0n, \bar{p}p \rightarrow \pi^0\pi^0\pi^0, \pi^0\pi^0\eta, \pi^0\eta\eta$	
~ 1000	31 ACHASOV 94	$\pi\pi \rightarrow \pi\pi$	
414 ± 20	26 AUGUSTIN 89	DM2	

- 21 Statistical uncertainty only.
 22 A similar analysis (KOMADA 01) finds 526^{+48}_{-37} MeV.
 23 From the best fit of the Dalitz plot.
 24 6σ effect, no PWA.
 25 Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.
 26 Breit-Wigner fit to S-wave intensity measured in $\pi N \rightarrow \pi^- \pi^+ N$ on polarized targets. The fit does not include $f_0(980)$.
 27 Uses data from ASTON 88, OCHS 73, HYAMS 73, ARMSTRONG 91B, GRAYER 74, CASON 83, ROSSELET 77, and BEIER 72B. Coupled channel analysis with flavor symmetry and all light two-pseudoscalars systems.
 28 Also observed by ASNER 00 in $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$ decays.
 29 Uses $\pi^0 \pi^0$ data from ANISOVICH 94, AMSLER 94D, and ALDE 95B, $\pi^+ \pi^-$ data from OCHS 73, GRAYER 74 and ROSSELET 77, and $\eta \eta$ data from ANISOVICH 94.
 30 The pole is on Sheet III. Demonstrates explicitly that $f_0(600)$ and $f_0(1370)$ are two different poles.
 31 Analysis of data from OCHS 73, ESTABROOKS 75, ROSSELET 77, and MUKHIN 80.

$f_0(600)$ BREIT-WIGNER WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
(600–1000) OUR ESTIMATE			
335 ± 67	32 MURAMATSU 02	CLEO	$e^+ e^- \approx 10$ GeV
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$			
$324^{+42}_{-40} \pm 21$	AITALA	01B E791	$D^+ \rightarrow \pi^- \pi^+ \pi^+$
372 ± 229	33 ISHIDA	01	$\gamma(3S) \rightarrow \gamma \pi \pi$
540	34 ASNER	00 CLE2	$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$
372 ± 80	ISHIDA	00B	$p\bar{p} \rightarrow \pi^0 \pi^0 \pi^0$
119 ± 13	ALEKSEEV	99 SPEC	$1.78 \pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$
77 ± 22	ALEKSEEV	98 SPEC	$1.78 \pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$
35 ± 12	35 TROYAN	98	$5.2 np \rightarrow np\pi^+\pi^-$
780 ± 60	ALDE	97 GAM2	$450 pp \rightarrow pp\pi^0\pi^0$
385 ± 70	36 ISHIDA	97	$\pi\pi \rightarrow \pi\pi$
290 ± 54	37 SVEC	96 RVUE	$6\text{--}17 \pi N_{\text{polar}} \rightarrow \pi^+ \pi^- N$
~ 880	38,39 TORNQVIST	96 RVUE	$\pi\pi \rightarrow \pi\pi, K\bar{K}, K\pi, \eta\pi$
460 ± 40	40,41 ANISOVICH	95 RVUE	$\pi^- p \rightarrow \pi^0 \pi^0 n,$ $\bar{p}p \rightarrow \pi^0 \pi^0 \pi^0, \pi^0 \pi^0 \eta, \pi^0 \eta\eta$
~ 3200	42 ACHASOV	94 RVUE	$\pi\pi \rightarrow \pi\pi$
494 ± 58	37 AUGUSTIN	89 DM2	

32 Statistical uncertainty only.

33 A similar analysis (KOMADA 01) finds 301^{+145}_{-100} MeV.

34 From the best fit of the Dalitz plot.

35 6σ effect, no PWA.

36 Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.

37 Breit-Wigner fit to S-wave intensity measured in $\pi N \rightarrow \pi^- \pi^+ N$ on polarized targets. The fit does not include $f_0(980)$.

- 38 Uses data from ASTON 88, OCHS 73, HYAMS 73, ARMSTRONG 91B, GRAYER 74, CASON 83, ROSSELET 77, and BEIER 72B. Coupled channel analysis with flavor symmetry and all light two-pseudoscalars systems.
- 39 Also observed by ASNER 00 in $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$ decays.
- 40 Uses $\pi^0 \pi^0$ data from ANISOVICH 94, AMSLER 94D, and ALDE 95B, $\pi^+ \pi^-$ data from OCHS 73, GRAYER 74 and ROSSELET 77, and $\eta\eta$ data from ANISOVICH 94.
- 41 The pole is on Sheet III. Demonstrates explicitly that $f_0(600)$ and $f_0(1370)$ are two different poles.
- 42 Analysis of data from OCHS 73, ESTABROOKS 75, ROSSELET 77, and MUKHIN 80.

$f_0(600)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \pi\pi$	dominant
$\Gamma_2 \gamma\gamma$	seen

$f_0(600)$ PARTIAL WIDTHS

$\Gamma(\gamma\gamma)$	Γ_2
<u>VALUE (keV)</u>	<u>DOCUMENT ID</u>
<u>• • • We do not use the following data for averages, fits, limits, etc. • • •</u>	
3.8 ± 1.5 43,44 BOGLIONE 99 RVUE $\gamma\gamma \rightarrow \pi^+ \pi^-, \pi^0 \pi^0$	
5.4 ± 2.3	43 MORGAN 90 RVUE $\gamma\gamma \rightarrow \pi^+ \pi^-, \pi^0 \pi^0$
10 ± 6	COURAU 86 DM1 $e^+ e^- \rightarrow \pi^+ \pi^- e^+ e^-$
43 This width could equally well be assigned to the $f_0(1370)$. The authors analyse data from BOYER 90 and MARSISKE 90 and report strong correlation with $\gamma\gamma$ width of $f_2(1270)$.	
44 Supersedes MORGAN 90.	

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ASNER	00	PR D61 012002	D.M. Asner <i>et al.</i>	(CLEO Collab.)
BAI	00E	PR D62 032002	J. Bai <i>et al.</i>	(BES Collab.)
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MONTANET	00	NPBPS 86 381	M. Alford, R.L. Jaffe
ABREU	99J	PL B449 364	D. Black, A. Fariborz, J. Schechter
BLACK	99	PR D59 074026	Fang Shi <i>et al.</i>
DELBOURGO	99	PL B446 332	M. Jamin <i>et al.</i>
IGI	99	PR D59 034005	L. Montanet
LUCIO	99	PL B454 365	P. Abreu <i>et al.</i>
MINKOWSKI	99	EPJ C9 283	D. Black <i>et al.</i>
SCADRON	99	EPJ C6 141	R. Delbourgo, D. Liu, M. Scadron
TAKAMATSU	99	PAN 62 435	K. Igi, K. Hikasa
ACKERSTAFF	98A	EPJ C5 411	J.L. Lucio, M. Napsuciale
ANISOVICH	98	PL B437 209	P. Minkowski, W. Ochs
DELBOURGO	98	IJMP A13 657	M. Scadron
OLLER	98	PRL 80 3452	K. Takamatsu
ANISOVICH	97	PL B395 123	K. Ackerstaff <i>et al.</i>
ANISOVICH	97D	ZPHY A359 173	(OPAL Collab.)
HARADA	97	PRL 78 1603	V.V. Anisovich <i>et al.</i>
ISHIDA	97B	PTP 98 621	R. Delbourgo <i>et al.</i>
KAMINSKI	97	ZPHY C74 79	J.A. Oller <i>et al.</i>
MALTMAN	97	PL B393 19	A.V. Anisovich, A.V. Sarantsev
OLLER	97	NP A620 438	(PNPI)
SVEC	97	PR D55 4355	A.V. Anisovich, V.V. Anisovich, A.V. Sarantsev
SVEC	97B	PR D55 5727	M. Harada, F. Sannino, J. Schechter
AMSLER	96	PR D53 295	S. Ishida <i>et al.</i>
BIJNENS	96	PL B374 210	R. Kaminski, L. Lesniak, K. Rybicki
BONUTTI	96	PRL 77 603	(CRAC)
BUGG	96	NP B471 59	K. Maltman, C.E. Wolfe
			(YORKC)
			J.A. Oller <i>et al.</i>
			(VALE)
			M. Svec
			M. Svec
			(MCGI)
			C. Amsler, F.E. Close
			(ZURI, RAL)
			J. Bijnens <i>et al.</i>
			(NORD, BERN, WIEN+)
			F. Bonutti <i>et al.</i>
			(TRSTI, TRSTT, TRIU)
			D.V. Bugg, A.V. Sarantsev, B.S. Zou
			(LOQM, PNPI)

HARADA	96	PR D54 1991	M. Harasa <i>et al.</i>	(SYRA)
ISHIDA	96	PTP 95 745	S. Ishida <i>et al.</i>	(TOKY, MIYA, KEK)
ANTINORI	95	PL B353 589	F. Antinori <i>et al.</i>	(ATHU, BARI, BIRM+)
GASPERO	95	NP A588 861	M. Gaspero	(ROMA)
TORNQVIST	95	ZPHY C68 647	N.A. Tornqvist	(HELS)
AMSLER	94	PL B322 431	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
BUGG	94	PR D50 4412	D.V. Bugg <i>et al.</i>	(LOQM)
ADAMO	93	NP A558 13C	A. Adamo <i>et al.</i>	(OBELIX Collab.)
GASPERO	93	NP A562 407	M. Gaspero	(ROMAI)
MORGAN	93	PR D48 1185	D. Morgan, M.R. Pennington	(RAL, DURH)
Also	93C	NC A Conf. Suppl.	D. Morgan	(RAL)
BOLTON	92B	PRL 69 1328	T. Bolton <i>et al.</i>	(Mark III Collab.)
SVEC	92	PR D45 55	M. Svec, A. de Lesquen, L. van Rossum	(MCGI+)
SVEC	92B	PR D45 1518	M. Svec, A. de Lesquen, L. van Rossum	(MCGI+)
SVEC	92C	PR D46 949	M. Svec, A. de Lesquen, L. van Rossum	(MCGI+)
RIGGENBACH	91	PR D43 127	C. Rigggenbach <i>et al.</i>	(BERN, CERN, MASA)
BAI	90C	PRL 65 2507	Z. Bai <i>et al.</i>	(Mark III Collab.)
WEINSTEIN	90	PR D41 2236	J. Weinstein, N. Isgur	(TNTO)
ASTON	88D	NP B301 525	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
ACHASOV	84	ZPHY C22 53	N.N. Achasov, S.A. Devyanin, G.N. Shestakov	(NOVM)
GASSER	84	ANP 158 142	J. Gasser, H. Leutwyler	
TORNQVIST	82	PRL 49 624	N.A. Tornqvist	(HELS)
COSTA	80	NP B175 402	G. Costa <i>et al.</i>	(BARI, BONN, CERN, GLAS+)
BECKER	79B	NP B150 301	H. Becker <i>et al.</i>	(MPIM, CERN, ZEEM, CRAC)
NAGELS	79	PR D20 1633	M.M. Nagels, T.A. Rijken, J.J. de Swart	(NIJM)
POLYCHRO...	79	PR D19 1317	V.A. Polychronakos <i>et al.</i>	(NDAM, ANL) IJP
CORDEN	78	NP B144 253	M.J. Corden <i>et al.</i>	(BIRM, RHEL, TELA+)
JAFFE	77	PR D15 267,281	R. Jaffe	(MIT)
FLATTE	76	PL 63B 224	S.M. Flatte	(CERN)
WETZEL	76	NP B115 208	W. Wetzel <i>et al.</i>	(ETH, CERN, LOIC)
DEFOIX	72	NP B44 125	C. Defoix <i>et al.</i>	(CDEF, CERN)