

$f_0(600)$   
or  $\sigma$

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

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**$f_0(600)$  T-MATRIX POLE  $\sqrt{s}$**

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

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>(400–1200)–<math>i</math>(250–500) OUR ESTIMATE</b>			
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
$(455 \pm 6^{+31}_{-13}) - i(278 \pm 6^{+34}_{-43})$	1 CAPRINI	08	RVUE Compilation
$(463 \pm 6^{+31}_{-17}) - i(259 \pm 6^{+33}_{-34})$	2 CAPRINI	08	RVUE Compilation
$(552^{+84}_{-106}) - i(232^{+81}_{-72})$	3 ABLIKIM	07A	BES2 $\psi(2S) \rightarrow \pi^+ \pi^- J/\psi$
$(466 \pm 18) - i(223 \pm 28)$	4 BONVICINI	07	CLEO $D^+ \rightarrow \pi^- \pi^+ \pi^+$
$(484 \pm 17) - i(255 \pm 10)$	GARCIA-MAR.	07	RVUE $Ke4$
$(441^{+16}_{-8}) - i(272^{+9}_{-12.5})$	5 CAPRINI	06	RVUE $\pi\pi \rightarrow \pi\pi$
$(470 \pm 50) - i(285 \pm 25)$	6 ZHOU	05	RVUE
$(541 \pm 39) - i(252 \pm 42)$	7 ABLIKIM	04A	BES2 $J/\psi \rightarrow \omega \pi^+ \pi^-$
$(528 \pm 32) - i(207 \pm 23)$	8 GALLEGOS	04	RVUE Compilation
$(440 \pm 8) - i(212 \pm 15)$	9 PELAEZ	04A	RVUE $\pi\pi \rightarrow \pi\pi$
$(533 \pm 25) - i(247 \pm 25)$	10 BUGG	03	RVUE
$532 - i272$	BLACK	01	RVUE $\pi^0 \pi^0 \rightarrow \pi^0 \pi^0$
$(470 \pm 30) - i(295 \pm 20)$	5 COLANGELO	01	RVUE $\pi\pi \rightarrow \pi\pi$
$(535^{+48}_{-36}) - i(155^{+76}_{-53})$	11 ISHIDA	01	$\Upsilon(3S) \rightarrow \Upsilon \pi\pi$
$610 \pm 14 - i620 \pm 26$	12 SUROVTSEV	01	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}$
$(558^{+34}_{-27}) - i(196^{+32}_{-41})$	ISHIDA	00B	$\rho\bar{\rho} \rightarrow \pi^0 \pi^0 \pi^0$
$445 - i235$	HANNAH	99	RVUE $\pi$ scalar form factor
$(523 \pm 12) - i(259 \pm 7)$	KAMINSKI	99	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}, \sigma\sigma$
$442 - i227$	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 $\pi\pi \rightarrow \pi\pi, K\bar{K}, \eta\eta$
$(1530^{+90}_{-250}) - i(560 \pm 40)$	ANISOVICH	98B	RVUE Compilation
$420 - i212$	LOCHER	98	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}$
$(602 \pm 26) - i(196 \pm 27)$	13 ISHIDA	97	$\pi\pi \rightarrow \pi\pi$
$(537 \pm 20) - i(250 \pm 17)$	14 KAMINSKI	97B	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}, 4\pi$
$470 - i250$	15,16 TORNVIST	96	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}, K\pi,$ $\eta\pi$
$\sim (1100 - i300)$	AMSLER	95B	CBAR $\bar{p}p \rightarrow 3\pi^0$
$400 - i500$	16,17 AMSLER	95D	CBAR $\bar{p}p \rightarrow 3\pi^0$
$1100 - i137$	16,18 AMSLER	95D	CBAR $\bar{p}p \rightarrow 3\pi^0$
$387 - i305$	16,19 JANSSEN	95	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}$
$525 - i269$	20 ACHASOV	94	RVUE $\pi\pi \rightarrow \pi\pi$
$(506 \pm 10) - i(247 \pm 3)$	KAMINSKI	94	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}$
$370 - i356$	21 ZOU	94B	RVUE $\pi\pi \rightarrow \pi\pi, K\bar{K}$

408 – $i342$	16,21 ZOU	93	RVUE	$\pi\pi \rightarrow \pi\pi, K\bar{K}$
870 – $i370$	16,22 AU	87	RVUE	$\pi\pi \rightarrow \pi\pi, K\bar{K}$
470 – $i208$	23 VANBEVEREN	86	RVUE	$\pi\pi \rightarrow \pi\pi, K\bar{K}, \eta\eta,$
$(750 \pm 50) - i(450 \pm 50)$	24 ESTABROOKS	79	RVUE	$\dots \rightarrow \pi\pi, K\bar{K}$
$(660 \pm 100) - i(320 \pm 70)$	PROTOPOP...	73	HBC	$\pi\pi \rightarrow \pi\pi, K\bar{K}$
650 – $i370$	25 BASDEVANT	72	RVUE	$\pi\pi \rightarrow \pi\pi$

<sup>1</sup> From the  $K_{e4}$  data of BATLEY 08A and  $\pi N \rightarrow \pi\pi N$  data of HYAMS 73.

<sup>2</sup> From the  $K_{e4}$  data of BATLEY 08A and  $\pi N \rightarrow \pi\pi N$  data of PROTOPOPESCU 73, GRAYER 74, and ESTABROOKS 74.

<sup>3</sup> From a mean of three different  $f_0(600)$  parametrizations. Uses 40k events.

<sup>4</sup> From an isobar model using 2.6k events.

<sup>5</sup> From the solution of the Roy equation (ROY 71) for the isoscalar S-wave and using a phase-shift analysis of HYAMS 73 and PROTOPOPESCU 73 data.

<sup>6</sup> Reanalysis of the data from PROTOPOPESCU 73, ESTABROOKS 74, GRAYER 74, ROSSELET 77, PISLAK 03, and AKHMETSHIN 04.

<sup>7</sup> From a mean of six different analyses and  $f_0(600)$  parameterizations.

<sup>8</sup> Using data on  $\psi(2S) \rightarrow J/\psi\pi\pi$  from BAI 00E and on  $\Upsilon(nS) \rightarrow \Upsilon(mS)\pi\pi$  from BUTLER 94B and ALEXANDER 98.

<sup>9</sup> Reanalysis of data from PROTOPOPESCU 73, ESTABROOKS 74, GRAYER 74, and COHEN 80 in the unitarized ChPT model.

<sup>10</sup> From a combined analysis of HYAMS 73, AUGUSTIN 89, AITALA 01B, and PISLAK 01.

<sup>11</sup> A similar analysis (KOMADA 01) finds  $(580^{+79}_{-30}) - i(190^{+107}_{-49})$  MeV.

<sup>12</sup> 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.

<sup>13</sup> Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.

<sup>14</sup> Average and spread of 4 variants (“up” and “down”) of KAMINSKI 97B 3-channel model.

<sup>15</sup> 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.

<sup>16</sup> Demonstrates explicitly that  $f_0(600)$  and  $f_0(1370)$  are two different poles.

<sup>17</sup> Coupled channel analysis of  $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta\eta$  and  $\pi^0\pi^0\eta$  on sheet II.

<sup>18</sup> Coupled channel analysis of  $\bar{p}p \rightarrow 3\pi^0, \pi^0\eta\eta$  and  $\pi^0\pi^0\eta$  on sheet III.

<sup>19</sup> Analysis of data from FALVARD 88.

<sup>20</sup> Analysis of data from OCHS 73, ESTABROOKS 75, ROSSELET 77, and MUKHIN 80.

<sup>21</sup> Analysis of data from OCHS 73, GRAYER 74, and ROSSELET 77.

<sup>22</sup> Analysis of data from OCHS 73, GRAYER 74, BECKER 79, and CASON 83.

<sup>23</sup> Coupled-channel analysis using data from PROTOPOPESCU 73, HYAMS 73, HYAMS 75, GRAYER 74, ESTABROOKS 74, ESTABROOKS 75, FROGGATT 77, CORDEN 79, BISWAS 81.

<sup>24</sup> Analysis of data from APEL 73, GRAYER 74, CASON 76, PAWLICKI 77. Includes spread and errors of 4 solutions.

<sup>25</sup> 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
<b>(400–1200) OUR ESTIMATE</b>			
513 ± 32	<sup>26</sup> 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	$D^+ \rightarrow \pi^- \pi^+ \pi^+$
$563^{+58}_{-29}$	27 ISHIDA	01		$\Upsilon(3S) \rightarrow \Upsilon \pi \pi$
555	28 ASNER	00	CLE2	$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$
$540 \pm 36$	ISHIDA	00B		$\rho \bar{p} \rightarrow \pi^0 \pi^0 \pi^0$
$750 \pm 4$	ALEKSEEV	99	SPEC	$1.78 \pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$
$744 \pm 5$	ALEKSEEV	98	SPEC	$1.78 \pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$
$759 \pm 5$	29 TROYAN	98		$5.2 np \rightarrow np \pi^+ \pi^-$
$780 \pm 30$	ALDE	97	GAM2	$450 pp \rightarrow pp \pi^0 \pi^0$
$585 \pm 20$	30 ISHIDA	97		$\pi \pi \rightarrow \pi \pi$
$761 \pm 12$	31 SVEC	96	RVUE	$6-17 \pi N_{\text{polar}} \rightarrow \pi^+ \pi^- N$
~ 860	32,33 TORNQVIST	96	RVUE	$\pi \pi \rightarrow \pi \pi, K \bar{K}, K \pi, \eta \pi$
$1165 \pm 50$	34,35 ANISOVICH	95	RVUE	$\pi^- p \rightarrow \pi^0 \pi^0 n,$ $\bar{p} p \rightarrow \pi^0 \pi^0 \pi^0, \pi^0 \pi^0 \eta, \pi^0 \eta \eta$
~ 1000	36 ACHASOV	94	RVUE	$\pi \pi \rightarrow \pi \pi$
$414 \pm 20$	31 AUGUSTIN	89	DM2	

<sup>26</sup> Statistical uncertainty only.

<sup>27</sup> A similar analysis (KOMADA 01) finds  $526^{+48}_{-37}$  MeV.

<sup>28</sup> From the best fit of the Dalitz plot.

<sup>29</sup>  $6\sigma$  effect, no PWA.

<sup>30</sup> Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.

<sup>31</sup> Breit-Wigner fit to S-wave intensity measured in  $\pi N \rightarrow \pi^- \pi^+ N$  on polarized targets. The fit does not include  $f_0(980)$ .

<sup>32</sup> 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.

<sup>33</sup> Also observed by ASNER 00 in  $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$  decays.

<sup>34</sup> 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.

<sup>35</sup> The pole is on Sheet III. Demonstrates explicitly that  $f_0(600)$  and  $f_0(1370)$  are two different poles.

<sup>36</sup> 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
$335 \pm 67$	<sup>37</sup> MURAMATSU 02	CLEO	$e^+ e^- \approx 10$ GeV

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

$324^{+42}_{-40} \pm 21$	AITALA	01B	E791	$D^+ \rightarrow \pi^- \pi^+ \pi^+$
$372^{+229}_{-95}$	38 ISHIDA	01		$\Upsilon(3S) \rightarrow \Upsilon \pi \pi$
540	39 ASNER	00	CLE2	$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$
$372 \pm 80$	ISHIDA	00B		$\rho \bar{p} \rightarrow \pi^0 \pi^0 \pi^0$
$119 \pm 13$	ALEKSEEV	99	SPEC	$1.78 \pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$
$77 \pm 22$	ALEKSEEV	98	SPEC	$1.78 \pi^- p_{\text{polar}} \rightarrow \pi^- \pi^+ n$
$35 \pm 12$	40 TROYAN	98		$5.2 np \rightarrow np \pi^+ \pi^-$

780 ± 60	ALDE	97	GAM2	450	$pp \rightarrow pp\pi^0\pi^0$
385 ± 70	41 ISHIDA	97			$\pi\pi \rightarrow \pi\pi$
290 ± 54	42 SVEC	96	RVUE	6-17	$\pi N_{\text{polar}} \rightarrow \pi^+\pi^-N$
~ 880	43,44 TORNQVIST	96	RVUE		$\pi\pi \rightarrow \pi\pi, K\bar{K}, K\pi, \eta\pi$
460 ± 40	45,46 ANISOVICH	95	RVUE		$\pi^-p \rightarrow \pi^0\pi^0n,$ $\bar{p}p \rightarrow \pi^0\pi^0\pi^0, \pi^0\pi^0\eta, \pi^0\eta\eta$
~ 3200	47 ACHASOV	94	RVUE		$\pi\pi \rightarrow \pi\pi$
494 ± 58	42 AUGUSTIN	89	DM2		

<sup>37</sup> Statistical uncertainty only.

<sup>38</sup> A similar analysis (KOMADA 01) finds  $301^{+145}_{-100}$  MeV.

<sup>39</sup> From the best fit of the Dalitz plot.

<sup>40</sup>  $6\sigma$  effect, no PWA.

<sup>41</sup> Reanalysis of data from HYAMS 73, GRAYER 74, SRINIVASAN 75, and ROSSELET 77 using the interfering amplitude method.

<sup>42</sup> Breit-Wigner fit to S-wave intensity measured in  $\pi N \rightarrow \pi^-\pi^+N$  on polarized targets. The fit does not include  $f_0(980)$ .

<sup>43</sup> 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.

<sup>44</sup> Also observed by ASNER 00 in  $\tau^- \rightarrow \pi^-\pi^0\pi^0\nu_\tau$  decays.

<sup>45</sup> 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.

<sup>46</sup> The pole is on Sheet III. Demonstrates explicitly that  $f_0(600)$  and  $f_0(1370)$  are two different poles.

<sup>47</sup> Analysis of data from OCHS 73, ESTABROOKS 75, ROSSELET 77, and MUKHIN 80.

### $f_0(600)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $\pi\pi$	dominant
$\Gamma_2$ $\gamma\gamma$	seen

### $f_0(600)$ PARTIAL WIDTHS

$\Gamma(\gamma\gamma)$	DOCUMENT ID	TECN	COMMENT	$\Gamma_2$
VALUE (keV)				
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
1.2 ± 0.4	48 BERNABEU 08	RVUE		
3.9 ± 0.6	49 MENNESSIER 08	RVUE	$\gamma\gamma \rightarrow \pi^+\pi^-, \pi^0\pi^0$	
4.1 ± 0.3	50 PENNINGTON 06	RVUE	$\gamma\gamma \rightarrow \pi^0\pi^0$	
3.8 ± 1.5	51,52 BOGLIONE 99	RVUE	$\gamma\gamma \rightarrow \pi^+\pi^-, \pi^0\pi^0$	
5.4 ± 2.3	51 MORGAN 90	RVUE	$\gamma\gamma \rightarrow \pi^+\pi^-, \pi^0\pi^0$	
10 ± 6	COURAU 86	DM1	$e^+e^- \rightarrow \pi^+\pi^-e^+e^-$	

<sup>48</sup> Using  $p, n$  polarizabilities from PDG 06 and fitting to  $\pi\pi$  phase motion from GARCIA-MARTIN 07 and  $\sigma$ -poles from GARCIA-MARTIN 07 and CAPRINI 06.

<sup>49</sup> Using an analytic K-matrix model.

<sup>50</sup> Using unitarity and the  $\sigma$  pole position from CAPRINI 06.

<sup>51</sup> 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  $f_2(1270)$ .

<sup>52</sup> Supersedes MORGAN 90.

## $f_0(600)$ REFERENCES

BATLEY	08A	EPJ C54 411	J.R. Batley <i>et al.</i>	(CERN NA48/2 Collab.)
BERNABEU	08	PRL 100 241804	J. Bernabeu, J. Prades	(IFIC, GRAN)
CAPRINI	08	PR D77 114019	I. Caprini	
MENNESSIER	08	PL B665 205	G. Mennessier, S. Narison, W. Ochs	
ABLIKIM	07A	PL B645 19	M. Ablikim <i>et al.</i>	(BES Collab.)
BONVICINI	07	PR D76 012001	G. Bonvicini <i>et al.</i>	(CLEO Collab.)
GARCIA-MAR...	07	PR D76 074034	R. Garcia-Martin, J.R. Pelaez, F.J. Yndurain	
CAPRINI	06	PRL 96 132001	I. Caprini, G. Colangelo, H. Leutwyler	(BCIP+)
PDG	06	JPG 33 1	W.-M. Yao <i>et al.</i>	(PDG Collab.)
PENNINGTON	06	PRL 97 011601	M.R. Pennington	
ZHOU	05	JHEP 0502 043	Z.Y. Zhou <i>et al.</i>	
ABLIKIM	04A	PL B598 149	M. Ablikim <i>et al.</i>	(BES Collab.)
AKHMETSHIN	04	PL B578 285	R.R. Akhmetshin <i>et al.</i>	(Novosibirsk CMD-2 Collab.)
GALLEGOS	04	PR D69 074033	A. Gallegos <i>et al.</i>	
PELAEZ	04A	MPL A19 2879	J.R. Pelaez	
BUGG	03	PL B572 1	D.V. Bugg	
PISLAK	03	PR D67 072004	S. Pislak <i>et al.</i>	(BNL E865 Collab.)
MURAMATSU	02	PRL 89 251802	H. Muramatsu <i>et al.</i>	(CLEO Collab.)
Also		PRL 90 059901 (erratum)	H. Muramatsu <i>et al.</i>	(CLEO Collab.)
AITALA	01B	PRL 86 770	E.M. Aitala <i>et al.</i>	(FNAL E791 Collab.)
BLACK	01	PR D64 014031	D. Black <i>et al.</i>	
COLANGELO	01	NP B603 125	G. Colangelo, J. Gasser, H. Leutwyler	
ISHIDA	01	PL B518 47	M. Ishida <i>et al.</i>	
KOMADA	01	PL B508 31	T. Komada <i>et al.</i>	
PISLAK	01	PRL 87 221801	S. Pislak <i>et al.</i>	(BNL E865 Collab.)
Also		PR D67 072004	S. Pislak <i>et al.</i>	(BNL E865 Collab.)
SUROVTSEV	01	PR D63 054024	Y.S. Surovtsev, D. Krupa, M. Nagy	
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.)
ISHIDA	00B	PTP 104 203	M. Ishida <i>et al.</i>	
ALEKSEEV	99	NP B541 3	I.G. Alekseev <i>et al.</i>	
BOGLIONE	99	EPJ C9 11	M. Boglione, M.R. Pennington	
HANNAH	99	PR D60 017502	T. Hannah	
KAMINSKI	99	EPJ C9 141	R. Kaminski, L. Lesniak, B. Loiseau	(CRAC, PARIN)
OLLER	99	PR D60 099906 (erratum)	J.A. Oller <i>et al.</i>	
OLLER	99B	NP A652 407 (erratum)	J.A. Oller, E. Oset	
OLLER	99C	PR D60 074023	J.A. Oller, E. Oset	
ALEKSEEV	98	PAN 61 174	I.G. Alekseev <i>et al.</i>	
ALEXANDER	98	PR D58 052004	J.P. Alexander <i>et al.</i>	(CLEO Collab.)
ANISOVICH	98B	SPU 41 419	V.V. Anisovich <i>et al.</i>	
		Translated from UFN 168 481.		
LOCHER	98	EPJ C4 317	M.P. Locher <i>et al.</i>	(PSI)
TROYAN	98	JINRRC 5-91 33	Yu. Troyan <i>et al.</i>	
ALDE	97	PL B397 350	D.M. Alde <i>et al.</i>	(GAMS Collab.)
ISHIDA	97	PTP 98 1005	S. Ishida <i>et al.</i>	(TOKY, MIYA, KEK)
KAMINSKI	97B	PL B413 130	R. Kaminski, L. Lesniak, B. Loiseau	(CRAC, IPN)
Also		PTP 95 745	S. Ishida <i>et al.</i>	(TOKY, MIYA, KEK)
SVEC	96	PR D53 2343	M. Svec	(MCGI)
TORNQVIST	96	PRL 76 1575	N.A. Tornqvist, M. Roos	(HELS)
ALDE	95B	ZPHY C66 375	D.M. Alde <i>et al.</i>	(GAMS Collab.)
AMSLER	95B	PL B342 433	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
AMSLER	95D	PL B355 425	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
ANISOVICH	95	PL B355 363	V.V. Anisovich <i>et al.</i>	(PNPI, SERP)
JANSEN	95	PR D52 2690	G. Janssen <i>et al.</i>	(STON, ADLD, JULI)
ACHASOV	94	PR D49 5779	N.N. Achasov, G.N. Shestakov	(NOVM)
AMSLER	94D	PL B333 277	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
ANISOVICH	94	PL B323 233	V.V. Anisovich <i>et al.</i>	(Crystal Barrel Collab.)
BUTLER	94B	PR D49 40	F. Butler <i>et al.</i>	(CLEO Collab.)
KAMINSKI	94	PR D50 3145	R. Kaminski, L. Lesniak, J.P. Maillet	(CRAC+)
ZOU	94B	PR D50 591	B.S. Zou, D.V. Bugg	(LOQM)
ZOU	93B	PR D48 R3948	B.S. Zou, D.V. Bugg	(LOQM)
ARMSTRONG	91B	ZPHY C52 389	T.A. Armstrong <i>et al.</i>	(ATHU, BARI, BIRM+)
BOYER	90	PR D42 1350	J. Boyer <i>et al.</i>	(Mark II Collab.)
MARSISKE	90	PR D41 3324	H. Marsiske <i>et al.</i>	(Crystal Ball Collab.)
MORGAN	90	ZPHY C48 623	D. Morgan, M.R. Pennington	(RAL, DURH)
AUGUSTIN	89	NP B320 1	J.E. Augustin, G. Cosme	(DM2 Collab.)
ASTON	88	NP B296 493	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
FALVARD	88	PR D38 2706	A. Falvard <i>et al.</i>	(CLER, FRAS, LALO+)

AU	87	PR D35 1633	K.L. Au, D. Morgan, M.R. Pennington	(DURH, RAL)
COURAU	86	NP B271 1	A. Courau <i>et al.</i>	(CLER, LALO)
VANBEVEREN	86	ZPHY C30 615	E. van Beveren <i>et al.</i>	(NIJM, BIEL)
CASON	83	PR D28 1586	N.M. Cason <i>et al.</i>	(NDAM, ANL)
ETKIN	82B	PR D25 1786	A. Etkin <i>et al.</i>	(BNL, CUNY, TUFTS, VAND)
BISWAS	81	PRL 47 1378	N.N. Biswas <i>et al.</i>	(NDAM, ANL)
COHEN	80	PR D22 2595	D. Cohen <i>et al.</i>	(ANL) IJP
MUKHIN	80	JETPL 32 601	K.N. Mukhin <i>et al.</i>	(KIAE)
BECKER	79	NP B151 46	H. Becker <i>et al.</i>	(MPIM, CERN, ZEEM, CRAC)
CORDEN	79	NP B157 250	M.J. Corden <i>et al.</i>	(BIRM, RHEL, TELA+) JP
ESTABROOKS	79	PR D19 2678	P. Estabrooks	(CARL)
FROGGATT	77	NP B129 89	C.D. Froggatt, J.L. Petersen	(GLAS, NORD)
PAWLICKI	77	PR D15 3196	A.J. Pawlicki <i>et al.</i>	(ANL) IJ
ROSSELET	77	PR D15 574	L. Rosselet <i>et al.</i>	(GEVA, SACL)
CASON	76	PRL 36 1485	N.M. Cason <i>et al.</i>	(NDAM, ANL) IJ
ESTABROOKS	75	NP B95 322	P.G. Estabrooks, A.D. Martin	(DURH)
HYAMS	75	NP B100 205	B.D. Hyams <i>et al.</i>	(CERN, MPIM)
SRINIVASAN	75	PR D12 681	V. Srinivasan <i>et al.</i>	(NDAM, ANL)
ESTABROOKS	74	NP B79 301	P.G. Estabrooks, A.D. Martin	(DURH)
GRAYER	74	NP B75 189	G. Grayer <i>et al.</i>	(CERN, MPIM)
APEL	73	PL 41B 542	W.D. Apel <i>et al.</i>	(KARL, PISA)
HYAMS	73	NP B64 134	B.D. Hyams <i>et al.</i>	(CERN, MPIM)
OCHS	73	Thesis	W. Ochs	(MPIM, MUNI)
PROTOPOP...	73	PR D7 1279	S.D. Protopopescu <i>et al.</i>	(LBL)
BAILLON	72	PL 38B 555	P.H. Baillon <i>et al.</i>	(SLAC)
BASDEVANT	72	PL 41B 178	J.L. Basdevant, C.D. Froggatt, J.L. Petersen	(CERN)
BEIER	72B	PRL 29 511	E.W. Beier <i>et al.</i>	(PENN)
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COLTON	71	PR D3 2028	E.P. Colton <i>et al.</i>	(LBL, FNAL, UCLA+)
ROY	71	PL 36B 353	S.M. Roy	
BATON	70	PL 33B 528	J.P. Baton, G. Laurens, J. Reigner	(SACL)
WALKER	67	RMP 39 695	W.D. Walker	(WISC)

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LIU	08B	PR D77 034025	Y.-H. Liu <i>et al.</i>	
ACHASOV	07	PRL 99 072001	N.N. Achasov, G.N. Shestakov	
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AUBERT	07AX	PRL 99 161802	B. Aubert <i>et al.</i>	(BABAR Collab.)
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ABLIKIM	06B	EPJ C45 337	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	06C	PL B633 681	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	06V	PL B642 441	M. Ablikim <i>et al.</i>	(BES Collab.)
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Also		PR D74 059901 (err.)	E.M. Aitala <i>et al.</i>	(FNAL E791 Collab.)
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AMSLER	04	PRPL 389 61	C. Amsler, N.A. Tornqvist	
AUBERT,B	04O	PR D70 091103R	B. Aubert <i>et al.</i>	(BABAR Collab.)
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AITALA	02	PRL 89 121801	E.M. Aitala <i>et al.</i>	(FNAL E791 Collab.)
ALOISIO	02C	PL B536 209	A. Aloisio <i>et al.</i>	(KLOE Collab.)
ALOISIO	02D	PL B537 21	A. Aloisio <i>et al.</i>	(KLOE Collab.)
AMSLER	02	EPJ C23 29	C. Amsler <i>et al.</i>	
AMSLER	02B	PL B541 22	C. Amsler	
BLACK	02	PRL 88 181603	D. Black, M. Harada, J. Schechter	
BOGLIONE	02	PR D65 114010	M. Boglione, M.R. Pennington	
BRAMON	02	EPJ C26 253	A. Bramon <i>et al.</i>	
CLOSE	02B	JPG 28 R249	F.E. Close, N. Tornqvist	
GARMASH	02	PR D65 092005	A. Garmash <i>et al.</i>	(BELLE Collab.)
HE	02	PL B536 59	J. He, Z.G. Xiao, H.Q. Zheng	
HERNANDEZ	02	PR C66 065201	E. Hernandez, E. Oset, M.J. Vicente Vacas	
ISHIDA	02	PL B539 249	S. Ishida, M. Ishida	
KAMINSKI	02	EPJ Direct C4 1	R. Kaminski, L. Lesniak, K. Rybicki	
LINK	02	PL B525 205	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
LINK	02E	PL B535 43	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
TESHIMA	02	JPG 28 1391	T. Teshima, I. Kitamura, N. Morisita	
VANBEVEREN	02	MPL A17 1673	E. van Beveren <i>et al.</i>	

ABELE	01	EPJ C19 667	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)
ABELE	01B	EPJ C21 261	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)
ACCIARRI	01H	PL B501 173	M. Acciarri <i>et al.</i>	(L3 Collab.)
CHERRY	01	NP A688 823	S.N. Cherry, M.R. Pennington	
CLOSE	01B	EPJ C21 531	F.E. Close, A. Kirk	
DEANDREA	01	PL B502 79	A. Deandrea <i>et al.</i>	
FAZIO	01	PL B521 15	F. De Fazio, M.R. Pennington	
GOKALP	01	PR D64 053017	A. Gokalp, O. Yilmaz	
KOPP	01	PR D63 092001	S. Kopp <i>et al.</i>	(CLEO Collab.)
LI	01	JPG 27 807	D.-M. Li, H. Yu, Q.-X. Shen	
NARISON	01C	NPBPS 96 244	S. Narison	
SHAKIN	01	PR D63 014019	C.M. Shakin, H. Wang	
VANBEVEREN	01B	EPJ C22 493	E. van Beveren	
XIAO	01	NP A695 273	Z. Xiao, H. Zheng	
ACHASOV	00F	PL B479 53	M.N. Achasov <i>et al.</i>	(Novosibirsk SND Collab.)
ACHASOV	00H	PL B485 349	M.N. Achasov <i>et al.</i>	(Novosibirsk SND Collab.)
ALFORD	00	NP B578 367	M. Alford, R.L. Jaffe	
BARATE	00E	PL B472 189	R. Barate <i>et al.</i>	(ALEPH Collab.)
BARBERIS	00C	PL B471 440	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BARBERIS	00E	PL B479 59	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BLACK	00B	PR D61 074030	D. Black, A. Fariborz, J. Schechter	
FANG	00	NP A671 416	Fang Shi <i>et al.</i>	
JAMIN	00	NP B587 331	M. Jamin <i>et al.</i>	
KAMINSKI	00	APP B31 895	R. Kaminski, L. Lesniak, K. Rybicki	
KIRK	00	PL B489 29	A. Kirk	
KYOTO	00	KEK-Proceedings 2000-4	S. Ishida (ed.) <i>et al.</i>	
LEE	00	PR D61 014015	W. Lee, D. Weingarten	
MONTANET	00	NPBPS 86 381	L. Montanet	
ABREU	99J	PL B449 364	P. Abreu <i>et al.</i>	(DELPHI Collab.)
AKHMETSHIN	99B	PL B462 371	R.R. Akhmetshin <i>et al.</i>	(Novosibirsk CMD-2 Collab.)
BARBERIS	99D	PL B462 462	D. Barberis <i>et al.</i>	(Omega Expt.)
BLACK	99	PR D59 074026	D. Black <i>et al.</i>	
DELBOURGO	99	PL B446 332	R. Delbourgo, D. Liu, M. Scadron	
IGI	99	PR D59 034005	K. Igi, K. Hikasa	
ISHIDA	99	PTP 101 661	M. Ishida	
LUCIO	99	PL B454 365	J.L. Lucio, M. Napsuciale	
MINKOWSKI	99	EPJ C9 283	P. Minkowski, W. Ochs	
SCADRON	99	EPJ C6 141	M. Scadron	
TAKAMATSU	99	PAN 62 435	K. Takamatsu	
TORNQVIST	99	EPJ C11 359	N. Tornqvist	
VANBEVEREN	99	EPJ C10 469	E. van Beveren, G. Rupp	
ABELE	98	PR D57 3860	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)
ACHASOV	98E	PR D58 054011	N.N. Achasov, G.N. Shestakov	
ACKERSTAFF	98A	EPJ C5 411	K. Ackerstaff <i>et al.</i>	(OPAL Collab.)
ANISOVICH	98	PL B437 209	V.V. Anisovich <i>et al.</i>	
BARBERIS	98C	PL B440 225	D. Barberis <i>et al.</i>	(WA 102 Collab.)
CLOSE	98B	PL B419 387	F.E. Close	
DELBOURGO	98	IJMP A13 657	R. Delbourgo <i>et al.</i>	
OLLER	98	PRL 80 3452	J.A. Oller <i>et al.</i>	
ANISOVICH	97	PL B395 123	A.V. Anisovich, A.V. Sarantsev	(PNPI)
ANISOVICH	97C	PL B413 137	A.V. Anisovich, A.V. Sarantsev	
ANISOVICH	97D	ZPHY A359 173	A.V. Anisovich, V.V. Anisovich, A.V. Sarantsev	
CLOSE	97	PL B397 333	F. Close <i>et al.</i>	(RAL, BIRM)
HARADA	97	PRL 78 1603	M. Harada, F. Sannino, J. Schechter	
ISHIDA	97B	PTP 98 621	S. Ishida <i>et al.</i>	
KAMINSKI	97	ZPHY C74 79	R. Kaminski, L. Lesniak, K. Rybicki	(CRAC)
MALTMAN	97	PL B393 19	K. Maltman, C.E. Wolfe	(YORKC)
OLLER	97	NP A620 438	J.A. Oller <i>et al.</i>	(VALE)
SVEC	97	PR D55 4355	M. Svec	
SVEC	97B	PR D55 5727	M. Svec	(MCGI)
ABELE	96	PL B380 453	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)
ABELE	96B	PL B385 425	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)
AMSLER	96	PR D53 295	C. Amsler, F.E. Close	(ZURI, RAL)
BIJNENS	96	PL B374 210	J. Bijnens <i>et al.</i>	(NORD, BERN, WIEN+)
BONUTTI	96	PRL 77 603	F. Bonutti <i>et al.</i>	(TRSTI, TRSTT, TRIU)
BUGG	96	NP B471 59	D.V. Bugg, A.V. Sarantsev, B.S. Zou	(LOQM, PNPI)
HARADA	96	PR D54 1991	M. Harada <i>et al.</i>	(SYRA)
ISHIDA	96	PTP 95 745	S. Ishida <i>et al.</i>	(TOKY, MIYA, KEK)
AMSLER	95C	PL B353 571	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
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)
ZOU	94	PL B329 519	Y. Zou <i>et al.</i>	(RUTG, MINN, MICH)
ADAMO	93	NP A558 13C	A. Adamo <i>et al.</i>	(OBELIX Collab.)
GASPERO	93	NP A562 407	M. Gaspero	(ROMA1)
MORGAN	93	PR D48 1185	D. Morgan, M.R. Pennington	(RAL, DURH)
Also		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+)
BERNARD	91	PR D43 2757	V. Bernard, N. Kaiser, U.G. Meissner	
LI	91	PR D43 2161	Z.P. Li <i>et al.</i>	(TENN)
RIGGENBACH	91	PR D43 127	C. Riggenbach <i>et al.</i>	(BERN, CERN, MASA)
BAI	90C	PRL 65 2507	Z. Bai <i>et al.</i>	(Mark III Collab.)
LOHSE	90	PL B234 235	D. Lohse <i>et al.</i>	
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)
BARNES	85	PL B165 434	T. Barnes	
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)
MARTIN	79	NP B158 520	A.D. Martin, E.N. Ozmutlu	(DURH) IJP
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+)
ESTABROOKS	78	NP B133 490	P.G. Estabrooks <i>et al.</i>	(MCGI, CARL, DURH+)
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)
ADLER	65	PR 137 B1022	S.L. Adler	
ADLER	65A	PR 139 B1638	S.L. Adler	