$f'_2(1525)$

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

$f'_2(1525)$ MASS

VALUE (MeV)	DOCUMENT ID
1525±5 OUR ESTIMATE This is only an educated guess; the error given is larger than the error on the average of the published values.	

PRODUCED BY PION BEAM

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1521±13		TIKHOMIROV	03	SPEC	40.0 $\pi^- C \to K^0_S K^0_S K^0_L X$
1547^{+10}_{-2}		[1] LONGACRE	86	MPS	22 $\pi^- p \to K^0_S K^0_S n$
1496^{+9}_{-8}		[2] CHABAUD	81	ASPK	6 $\pi^- p \to K^+ K^- n$
1497^{+8}_{-9}		CHABAUD	81	ASPK	18.4 $\pi^- p \to K^+ K^- n$
1492±29		GORLICH	80	ASPK	17 $\pi^- p$ polarized $\to K^+ K^- n$
1502±25		[3] CORDEN	79	OMEG	12–15 $\pi^- p \to \pi^+ \pi^- n$
1480	14	CRENNELL	66	HBC	6.0 $\pi^- p \to K^0_S K^0_S n$

PRODUCED BY $K^\pm$ BEAM

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
1523.4± 1.3 OUR AVERAGE Includes data from the datablock that follows this one. Error includes scale factor of 1.1.					
1526.8± 4.3		ASTON	88D	LASS	11 $K^- p \to K^0_S K^0_S \Lambda$
1504 ±12		BOLONKIN	86	SPEC	40 $K^- p \to K^0_S K^0_S Y$
1529 ± 3		ARMSTRONG	83B	OMEG	18.5 $K^- p \to K^- K^+ \Lambda$
1521 ± 6	650	AGUILAR-...	81B	HBC	4.2 $K^- p \to \Lambda K^+ K^-$
1521 ± 3	572	ALHARRAN	81	HBC	8.25 $K^- p \to \Lambda K \overline{K}$
1522 ± 6	123	BARREIRO	77	HBC	4.15 $K^- p \to \Lambda K^0_S K^0_S$
1528 ± 7	166	EVANGELIS...	77	OMEG	10 $K^- p \to K^+ K^- (\Lambda, \Sigma)$
1527 ± 3	120	BRANDENB...	76C	ASPK	13 $K^- p \to K^+ K^- (\Lambda, \Sigma)$
1519 ± 7	100	AGUILAR-...	72B	HBC	3.9,4.6 $K^- p \to K \overline{K} (\Lambda, \Sigma)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1514 ± 8	61	BINON	07	GAMS	32.5 $K^- p \to \eta\eta(\Lambda/\Sigma^0)$
1513 ±10		[4] BARKOV	99	SPEC	40 $K^- p \to K^0_S K^0_S y$

PRODUCED IN $e^+ e^-$ ANNIHILATION

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
The data in this block is included in the average printed for a previous datablock.					
1520.7± 2.0 OUR AVERAGE					
1521 ± 5		ABLIKIM	05	BES2	$J/\psi \to \phi K^+ K^-$
1518 ± 1 ± 3		ABE	04	BELL	10.6 $e^+ e^- \to e^+ e^- K^+ K^-$
1519 ± 2 $^{+15}_{-5}$		BAI	03G	BES	$J/\psi \to \gamma K \overline{K}$
1523 ± 6	331	[5] ACCIARRI	01H	L3	91, 183–209 $e^+ e^- \to e^+ e^- K^0_S K^0_S$

$1535 \pm 5 \pm 4$		ABREU	96C	DLPH	$Z^0 \to K^+ K^- + X$
$1516 \pm 5 {}^{+9}_{-15}$		BAI	96C	BES	$J/\psi \to \gamma K^+ K^-$
1531.6 ± 10.0		AUGUSTIN	88	DM2	$J/\psi \to \gamma K^+ K^-$
1515 ± 5		[6] FALVARD	88	DM2	$J/\psi \to \phi K^+ K^-$
$1525 \pm 10 \pm 10$		BALTRUSAIT...	87	MRK3	$J/\psi \to \gamma K^+ K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1523 ± 5	870	[7] SCHEGELSKY	06A	RVUE	$\gamma\gamma \to K^0_S K^0_S$
1496 ± 2		[8] FALVARD	88	DM2	$J/\psi \to \phi K^+ K^-$

PRODUCED IN $\overline{p}p$ ANNIHILATION

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1530 ± 12	[9] ANISOVICH	09	RVUE	$0.0\ \overline{p}p,\ \pi N$
1513 ± 4	AMSLER	06	CBAR	$0.9\ \overline{p}p \to K^+ K^- \pi^0$
1508 ± 9	[10] AMSLER	02	CBAR	$0.9\ \overline{p}p \to \pi^0 \eta\eta,\ \pi^0\pi^0\pi^0$

CENTRAL PRODUCTION

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
1515±15	BARBERIS	99	OMEG	$450\ pp \to p_s p_f K^+ K^-$

PRODUCED IN ep COLLISIONS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
$\mathbf{1512 \pm 3^{+1.4}_{-0.5}}$		[11] CHEKANOV	08	ZEUS	$ep \to K^0_S K^0_S X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1537^{+9}_{-8}	84	[12] CHEKANOV	04	ZEUS	$ep \to K^0_S K^0_S X$

[1] From a partial-wave analysis of data using a K-matrix formalism with 5 poles.
[2] CHABAUD 81 is a reanalysis of PAWLICKI 77 data.
[3] From an amplitude analysis where the $f_2'(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\overline{K}$ channel, making the solution dubious.
[4] Systematic errors not estimated.
[5] Supersedes ACCIARRI 95J.
[6] From an analysis ignoring interference with $f_0(1710)$.
[7] From analysis of L3 data at 91 and 183–209 GeV.
[8] From an analysis including interference with $f_0(1710)$.
[9] 4-poles, 5-channel K matrix fit.
[10] T-matrix pole.
[11] 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.
[12] Systematic errors not estimated.

$f_2'(1525)$ WIDTH

VALUE (MeV)	DOCUMENT ID		COMMENT
$\mathbf{73^{+6}_{-5}}$ **OUR FIT**			
76±10	PDG	90	For fitting

PRODUCED BY PION BEAM

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
102 ± 42	TIKHOMIROV	03	SPEC	$40.0\ \pi^- C \to K^0_S K^0_S K^0_L X$
108^{+5}_{-2}	[13] LONGACRE	86	MPS	$22\ \pi^- p \to K^0_S K^0_S n$
69^{+22}_{-16}	[14] CHABAUD	81	ASPK	$6\ \pi^- p \to K^+ K^- n$
137^{+23}_{-21}	CHABAUD	81	ASPK	$18.4\ \pi^- p \to K^+ K^- n$
150^{+83}_{-50}	GORLICH	80	ASPK	$17\ \pi^- p$ polarized $\to K^+ K^- n$
165 ± 42	[15] CORDEN	79	OMEG	$12–15\ \pi^- p \to \pi^+ \pi^- n$
92^{+39}_{-22}	[16] POLYCHRO...	79	STRC	$7\ \pi^- p \to n K^0_S K^0_S$

PRODUCED BY $K^{\pm}$ BEAM

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
80.2± 2.6 OUR AVERAGE		Includes data from the datablock that follows this one.			
$90\ \pm12$		ASTON	88D	LASS	$11\ K^- p \to K^0_S K^0_S \Lambda$
$73\ \pm18$		BOLONKIN	86	SPEC	$40\ K^- p \to K^0_S K^0_S Y$
$83\ \pm15$		ARMSTRONG	83B	OMEG	$18.5\ K^- p \to K^- K^+ \Lambda$
$85\ \pm16$	650	AGUILAR-...	81B	HBC	$4.2\ K^- p \to \Lambda K^+ K^-$
$80\ ^{+14}_{-11}$	572	ALHARRAN	81	HBC	$8.25\ K^- p \to \Lambda K \overline{K}$
$72\ \pm25$	166	EVANGELIS...	77	OMEG	$10\ K^- p \to K^+ K^- (\Lambda, \Sigma)$
$69\ \pm22$	100	AGUILAR-...	72B	HBC	$3.9,4.6\ K^- p \to K \overline{K} (\Lambda, \Sigma)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$92\ ^{+25}_{-16}$	61	BINON	07	GAMS	$32.5\ K^- p \to \eta\eta(\Lambda/\Sigma^0)$
$75\ \pm20$		[17] BARKOV	99	SPEC	$40\ K^- p \to K^0_S K^0_S y$
$62\ ^{+19}_{-14}$	123	BARREIRO	77	HBC	$4.15\ K^- p \to \Lambda K^0_S K^0_S$
$61\ \pm\ 8$	120	BRANDENB...	76C	ASPK	$13\ K^- p \to K^+ K^- (\Lambda, \Sigma)$

PRODUCED IN e^+e^- ANNIHILATION

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
The data in this block is included in the average printed for a previous datablock.					
79.9± 3.3 OUR AVERAGE		Error includes scale factor of 1.1.			
$77\ \pm15$		ABLIKIM	05	BES2	$J/\psi \to \phi K^+ K^-$
$82\ \pm\ 2\ \pm\ 3$		ABE	04	BELL	$10.6\ e^+e^- \to e^+e^- K^+ K^-$
$75\ \pm\ 4\ ^{+15}_{-\ 5}$		BAI	03G	BES	$J/\psi \to \gamma K \overline{K}$
$100\ \pm15$	331	[18] ACCIARRI	01H	L3	$91, 183–209\ e^+e^- \to e^+e^- K^0_S K^0_S$
$60\ \pm20\ \pm19$		ABREU	96C	DLPH	$Z^0 \to K^+ K^- + X$
$60\ \pm23\ ^{+13}_{-20}$		BAI	96C	BES	$J/\psi \to \gamma K^+ K^-$
$103\ \pm30$		AUGUSTIN	88	DM2	$J/\psi \to \gamma K^+ K^-$
$62\ \pm10$		[19] FALVARD	88	DM2	$J/\psi \to \phi K^+ K^-$
$85\ \pm35$		BALTRUSAIT...	87	MRK3	$J/\psi \to \gamma K^+ K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •					

104 ±10	870	[20] SCHEGELSKY	06A	RVUE	$\gamma\gamma \to K^0_S K^0_S$
100 ± 3		[21] FALVARD	88	DM2	$J/\psi \to \phi K^+ K^-$

PRODUCED IN $\overline{p}p$ ANNIHILATION

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
79± 8	[22] AMSLER	02	CBAR	$0.9\ \overline{p}p \to \pi^0\eta\eta,\ \pi^0\pi^0\pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
128±20	[23] ANISOVICH	09	RVUE	$0.0\ \overline{p}p,\ \pi N$
76± 6	AMSLER	06	CBAR	$0.9\ \overline{p}p \to K^+ K^- \pi^0$

CENTRAL PRODUCTION

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
70±25	BARBERIS	99	OMEG	$450\ pp \to p_s p_f K^+ K^-$

PRODUCED IN ep COLLISIONS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
$83 \pm 9^{+5}_{-4}$		[24] CHEKANOV	08	ZEUS	$ep \to K^0_S K^0_S X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
50^{+34}_{-22}	84	[25] CHEKANOV	04	ZEUS	$ep \to K^0_S K^0_S X$

[13] From a partial-wave analysis of data using a K-matrix formalism with 5 poles.
[14] CHABAUD 81 is a reanalysis of PAWLICKI 77 data.
[15] From an amplitude analysis where the $f'_2(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\overline{K}$ channel, making the solution dubious.
[16] From a fit to the D with $f_2(1270)$-$f'_2(1525)$ interference. Mass fixed at 1516 MeV.
[17] Systematic errors not estimated.
[18] Supersedes ACCIARRI 95J.
[19] From an analysis ignoring interference with $f_0(1710)$.
[20] From analysis of L3 data at 91 and 183–209 GeV.
[21] From an analysis including interference with $f_0(1710)$.
[22] T-matrix pole.
[23] 4-poles, 5-channel K matrix fit.
[24] In the SU(3) based model with a specific interference pattern of the $f_2(1270)$, $a^0_2(1320)$, and $f'_2(1525)$ mesons incoherently added to the $f_0(1710)$ and non-resonant background.
[25] Systematic errors not estimated.

$f'_2(1525)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$K\overline{K}$	(88.7 ±2.2) %
Γ_2	$\eta\eta$	(10.4 ±2.2) %
Γ_3	$\pi\pi$	$(8.2 \pm 1.5) \times 10^{-3}$
Γ_4	$K\overline{K}^*(892)+$ c.c.	
Γ_5	$\pi K\overline{K}$	
Γ_6	$\pi\pi\eta$	
Γ_7	$\pi^+\pi^+\pi^-\pi^-$	
Γ_8	$\gamma\gamma$	$(1.11 \pm 0.14) \times 10^{-6}$

CONSTRAINED FIT INFORMATION

An overall fit to the total width, 2 partial widths, a combination of partial widths obtained from integrated cross sections, and 3 branching ratios uses 16 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 14.0$ for 12 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle\delta p_i \delta p_j\rangle/(\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i, including the branching fractions, $x_i \equiv \Gamma_i/\Gamma_{total}$. The fit constrains the x_i whose labels appear in this array to sum to one.

x_2	−100			
x_3	−6	−1		
x_8	−6	6	1	
Γ	−23	23	−1	−55
	x_1	x_2	x_3	x_8

	Mode	Rate (MeV)
Γ_1	$K\overline{K}$	65^{+5}_{-4}
Γ_2	$\eta\eta$	7.6 ±1.8
Γ_3	$\pi\pi$	0.60±0.12
Γ_8	$\gamma\gamma$	(8.1 ±0.9) $\times 10^{-5}$

$f_2'(1525)$ PARTIAL WIDTHS

$\Gamma(K\overline{K})$ — Γ_1

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
65^{+5}_{-4} OUR FIT				
63^{+6}_{-5}	[26] LONGACRE	86	MPS	22 $\pi^- p \to K^0_S K^0_S n$

$\Gamma(\eta\eta)$ — Γ_2

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
7.6±1.8 OUR FIT					
• • • We do not use the following data for averages, fits, limits, etc. • • •					
5.0±0.8	870	[27] SCHEGELSKY	06A	RVUE	$\gamma\gamma \to K^0_S K^0_S$
24^{+3}_{-1}		[26] LONGACRE	86	MPS	22 $\pi^- p \to K^0_S K^0_S n$

$\Gamma(\pi\pi)$ Γ_3

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
0.60±0.12 OUR FIT					
1.4 $^{+1.0}_{-0.5}$		[26] LONGACRE	86	MPS	22 $\pi^- p \to K^0_S K^0_S n$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.2 $^{+1.0}_{-0.2}$	870	[27] SCHEGELSKY	06A	RVUE	$\gamma\gamma \to K^0_S K^0_S$

$\Gamma(\gamma\gamma)$ Γ_8

VALUE (keV)	EVTS	DOCUMENT ID		TECN	COMMENT
0.081±0.009 OUR FIT					
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.13 ±0.03	870	[27] SCHEGELSKY	06A	RVUE	$\gamma\gamma \to K^0_S K^0_S$

[26] From a partial-wave analysis of data using a K-matrix formalism with 5 poles.
[27] From analysis of L3 data at 91 and 183–209 GeV, using $\Gamma(f'_2(1525) \to K\overline{K}) = 68$ MeV and SU(3) relations.

$f'_2(1525)$ $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(total)$

$\Gamma(K\overline{K}) \times \Gamma(\gamma\gamma)/\Gamma_{total}$ $\Gamma_1\Gamma_8/\Gamma$

VALUE (keV)	EVTS	DOCUMENT ID		TECN	COMMENT
0.072 ±0.007 OUR FIT					
0.072 ±0.007 OUR AVERAGE					
0.0564±0.0048±0.0116		ABE	04	BELL	10.6 $e^+e^- \to e^+e^- K^+K^-$
0.076 ±0.006 ±0.011	331	[28] ACCIARRI	01H	L3	$e^+e^- \to e^+e^- K^0_S K^0_S$
0.067 ±0.008 ±0.015		[29] ALBRECHT	90G	ARG	$e^+e^- \to e^+e^- K^+K^-$
0.11 $^{+0.03}_{-0.02}$ ±0.02		BEHREND	89C	CELL	$e^+e^- \to e^+e^- K^0_S K^0_S$
0.10 $^{+0.04}_{-0.03}$ $^{+0.03}_{-0.02}$		BERGER	88	PLUT	$e^+e^- \to e^+e^- K^0_S K^0_S$
0.12 ±0.07 ±0.04		[29] AIHARA	86B	TPC	$e^+e^- \to e^+e^- K^+K^-$
0.11 ±0.02 ±0.04		[29] ALTHOFF	83	TASS	$e^+e^- \to e^+e^- K\overline{K}$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.0314±0.0050±0.0077		[30] ALBRECHT	90G	ARG	$e^+e^- \to e^+e^- K^+K^-$

[28] Supersedes ACCIARRI 95J. From analysis of L3 data at 91 and 183–209 GeV,
[29] Using an incoherent background.
[30] Using a coherent background.

$f'_2(1525)$ BRANCHING RATIOS

$\Gamma(\eta\eta)/\Gamma_{total}$ Γ_2/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
seen	UEHARA	10A	BELL	10.6 $e^+e^- \to e^+e^-\eta\eta$
0.10±0.03	[31] PROKOSHKIN	91	GAM4	300 $\pi^- p \to \pi^- p\eta\eta$

[31] Combining results of GAM4 with those of WA76 on $K\overline{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \to \gamma\eta\eta$.

$\Gamma(\eta\eta)/\Gamma(K\overline{K})$ — Γ_2/Γ_1

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
0.118±0.028 OUR FIT						
0.115±0.028 OUR AVERAGE						
0.119±0.015±0.036		61	[32] BINON	07	GAMS	32.5 $K^- p \to \eta\eta(\Lambda/\Sigma^0)$
0.11 ±0.04			[33] PROKOSHKIN	91	GAM4	300 $\pi^- p \to \pi^- p \eta\eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
< 0.14	90		BARBERIS	00E		450 $pp \to p_f \eta\eta p_s$
< 0.50			BARNES	67	HBC	4.6,5.0 $K^- p$

[32] Using the compilation of the cross sections for $f'_2(1525)$ production in $K^- p$ collisions from ASTON 88D.
[33] Combining results of GAM4 with those of WA76 on $K\overline{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \to \gamma\eta\eta$.

$\Gamma(\pi\pi)/\Gamma_{total}$ — Γ_3/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
0.0082±0.0016 OUR FIT					
0.0075±0.0016 OUR AVERAGE					
0.007 ±0.002		COSTA...	80	OMEG	10 $\pi^- p \to K^+ K^- n$
0.027 $^{+0.071}_{-0.013}$		[34] GORLICH	80	ASPK	17,18 $\pi^- p$
0.0075±0.0025		[34,35] MARTIN	79	RVUE	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.06	95	AGUILAR-...	81B	HBC	4.2 $K^- p \to \Lambda K^+ K^-$
0.19 ±0.03		CORDEN	79	OMEG	12–15 $\pi^- p \to \pi^+\pi^- n$
<0.045	95	BARREIRO	77	HBC	4.15 $K^- p \to \Lambda K^0_S K^0_S$
0.012 ±0.004		[34] PAWLICKI	77	SPEC	6 $\pi N \to K^+ K^- N$
<0.063	90	BRANDENB...	76C	ASPK	13 $K^- p \to K^+ K^- (\Lambda, \Sigma)$
<0.0086		[34] BEUSCH	75B	OSPK	8.9 $\pi^- p \to K^0 \overline{K}^0 n$

[34] Assuming that the $f'_2(1525)$ is produced by an one-pion exchange production mechanism.
[35] MARTIN 79 uses the PAWLICKI 77 data with different input value of the $f'_2(1525) \to K\overline{K}$ branching ratio.

$\Gamma(\pi\pi)/\Gamma(K\overline{K})$ — Γ_3/Γ_1

VALUE	DOCUMENT ID		TECN	COMMENT
0.0092±0.0018 OUR FIT				
0.075 ±0.035	AUGUSTIN	87	DM2	$J/\psi \to \gamma\pi^+\pi^-$

$[\Gamma(K\overline{K}^*(892)+\text{c.c.}) + \Gamma(\pi K\overline{K})]/\Gamma(K\overline{K})$ — $(\Gamma_4+\Gamma_5)/\Gamma_1$

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.35	95	AGUILAR-...	72B	HBC	3.9,4.6 $K^- p$
<0.4	67	AMMAR	67	HBC	

$\Gamma(\pi\pi\eta)/\Gamma(K\overline{K})$ — Γ_6/Γ_1

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.41	95	AGUILAR-...	72B	HBC	3.9,4.6 $K^- p$
<0.3	67	AMMAR	67	HBC	

$\Gamma(\pi^+\pi^+\pi^-\pi^-)/\Gamma(K\overline{K})$ Γ_7/Γ_1

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.32	95	AGUILAR-...	72B	HBC	3.9,4.6 $K^- p$

$f_2'(1525)$ REFERENCES

UEHARA	10A	PR D82 114031	S. Uehara et al.	(BELLE Collab.)
ANISOVICH	09	IJMP A24 2481	V.V. Anisovich, A.V. Sarantsev	
CHEKANOV	08	PRL 101 112003	S. Chekanov et al.	(ZEUS Collab.)
BINON	07	PAN 70 1713	F. Binon et al.	(GAMS Collab.)
		Translated from YAF 70 1758.		
AMSLER	06	PL B639 165	C. Amsler et al.	(CBAR Collab.)
SCHEGELSKY	06A	EPJ A27 207	V.A. Schegelsky et al.	
ABLIKIM	05	PL B607 243	M. Ablikim et al.	(BES Collab.)
ABE	04	EPJ C32 323	K. Abe et al.	(BELLE Collab.)
CHEKANOV	04	PL B578 33	S. Chekanov et al.	(ZEUS Collab.)
BAI	03G	PR D68 052003	J.Z. Bai et al.	(BES Collab.)
TIKHOMIROV	03	PAN 66 828	G.D. Tikhomirov et al.	
		Translated from YAF 66 860.		
AMSLER	02	EPJ C23 29	C. Amsler et al.	
ACCIARRI	01H	PL B501 173	M. Acciarri et al.	(L3 Collab.)
BARBERIS	00E	PL B479 59	D. Barberis et al.	(WA 102 Collab.)
BARBERIS	99	PL B453 305	D. Barberis et al.	(Omega Expt.)
BARKOV	99	JETPL 70 248	B.P. Barkov et al.	
		Translated from ZETFP 70 242.		
ABREU	96C	PL B379 309	P. Abreu et al.	(DELPHI Collab.)
BAI	96C	PRL 77 3959	J.Z. Bai et al.	(BES Collab.)
ACCIARRI	95J	PL B363 118	M. Acciarri et al.	(L3 Collab.)
PROKOSHKIN	91	SPD 36 155	Y.D. Prokoshkin	(GAM2, GAM4 Collab.)
		Translated from DANS 316 900.		
ALBRECHT	90G	ZPHY C48 183	H. Albrecht et al.	(ARGUS Collab.)
PDG	90	PL B239 1	J.J. Hernandez et al.	(IFIC, BOST, CIT+)
BEHREND	89C	ZPHY C43 91	H.J. Behrend et al.	(CELLO Collab.)
ASTON	88D	NP B301 525	D. Aston et al.	(SLAC, NAGO, CINC, INUS)
AUGUSTIN	88	PRL 60 2238	J.E. Augustin et al.	(DM2 Collab.)
BERGER	88	ZPHY C37 329	C. Berger et al.	(PLUTO Collab.)
FALVARD	88	PR D38 2706	A. Falvard et al.	(CLER, FRAS, LALO+)
AUGUSTIN	87	ZPHY C36 369	J.E. Augustin et al.	(LALO, CLER, FRAS+)
BALTRUSAIT...	87	PR D35 2077	R.M. Baltrusaitis et al.	(Mark III Collab.)
AIHARA	86B	PRL 57 404	H. Aihara et al.	(TPC-2γ Collab.)
BOLONKIN	86	SJNP 43 776	B.V. Bolonkin et al.	(ITEP) JP
		Translated from YAF 43 1211.		
LONGACRE	86	PL B177 223	R.S. Longacre et al.	(BNL, BRAN, CUNY+)
ALTHOFF	83	PL 121B 216	M. Althoff et al.	(TASSO Collab.)
ARMSTRONG	83B	NP B224 193	T.A. Armstrong et al.	(BARI, BIRM, CERN+)
AGUILAR-...	81B	ZPHY C8 313	M. Aguilar-Benitez et al.	(CERN, CDEF+)
ALHARRAN	81	NP B191 26	S. Al-Harran et al.	(BIRM, CERN, GLAS+)
CHABAUD	81	APP B12 575	V. Chabaud et al.	(CERN, CRAC, MPIM)
COSTA...	80	NP B175 402	G. Costa de Beauregard et al.	(BARI, BONN+)
GORLICH	80	NP B174 16	L. Gorlich et al.	(CRAC, MPIM, CERN+)
CORDEN	79	NP B157 250	M.J. Corden et al.	(BIRM, RHEL, TELA+) JP
MARTIN	79	NP B158 520	A.D. Martin, E.N. Ozmutlu	(DURH)
POLYCHRO...	79	PR D19 1317	V.A. Polychronakos et al.	(NDAM, ANL)
BARREIRO	77	NP B121 237	F. Barreiro et al.	(CERN, AMST, NIJM+)
EVANGELIS...	77	NP B127 384	C. Evangelista et al.	(BARI, BONN, CERN+)
PAWLICKI	77	PR D15 3196	A.J. Pawlicki et al.	(ANL) IJP
BRANDENB...	76C	NP B104 413	G.W. Brandenburg et al.	(SLAC)
BEUSCH	75B	PL 60B 101	W. Beusch et al.	(CERN, ETH)
AGUILAR-...	72B	PR D6 29	M. Aguilar-Benitez et al.	(BNL)
AMMAR	67	PRL 19 1071	R. Ammar et al.	(NWES, ANL) JP
BARNES	67	PRL 19 964	V.E. Barnes et al.	(BNL, SYRA) IJPC
CRENNELL	66	PRL 16 1025	D.J. Crennell et al.	(BNL) I