$f_2'(1525)$

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

$f_2'(1525)$ 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
1523.6± 1.1 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 AND PARTICLE DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
The data in this block is included in the average printed for a previous datablock.				
$1522.4^{+1.7}_{-1.4}$ OUR AVERAGE				
$1522.2 \pm 2.8^{+5.3}_{-2.0}$		AAIJ 13AN	LHCB	$\overline{B}^0_s \to J/\psi K^+ K^-$

$1525.3^{+1.2}_{-1.4}{}^{+3.7}_{-2.1}$			UEHARA	13	BELL	$\gamma\gamma \to K^0_S K^0_S$
1521 ± 5			ABLIKIM	05	BES2	$J/\psi \to \phi K^+ K^-$
$1518 \pm 1 \pm 3$			ABE	04	BELL	$10.6\ e^+ e^- \to e^+ e^- K^+ K^-$
$1519 \pm 2 {}^{+15}_{-5}$			BAI	03G	BES	$J/\psi \to \gamma K \overline{K}$
1523 ± 6	331	[5]	ACCIARRI	01H	L3	$91, 183\text{–}209\ e^+ e^- \to e^+ e^- K^0_S K^0_S$
$1535 \pm 5 \pm 4$			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 $f_2(1270)$, $a^0_2(1320)$, 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
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
$81.5^{+2.2}_{-1.9}$ OUR AVERAGE	Includes data from the datablock that follows this one.				
90 ±12		ASTON	88D	LASS	11 $K^- p \to K^0_S K^0_S \Lambda$
73 ±18		BOLONKIN	86	SPEC	40 $K^- p \to K^0_S K^0_S Y$
83 ±15		ARMSTRONG	83B	OMEG	18.5 $K^- p \to K^- K^+ \Lambda$
85 ±16	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 ±25	166	EVANGELIS...	77	OMEG	10 $K^- p \to K^+ K^- (\Lambda, \Sigma)$
69 ±22	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 ±20		[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 ± 8	120	BRANDENB...	76C	ASPK	13 $K^- p \to K^+ K^- (\Lambda, \Sigma)$

PRODUCED IN $e^+ e^-$ ANNIHILATION AND PARTICLE DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
The data in this block is included in the average printed for a previous datablock.					
$81.5^{+2.4}_{-2.0}$ OUR AVERAGE					
$84 \pm 6 ^{+10}_{-5}$		AAIJ	13AN	LHCB	$\overline{B}^0_s \to J/\psi K^+ K^-$

$82.9^{+2.1+3.3}_{-2.2-2.0}$		UEHARA	13	BELL	$\gamma\gamma \to K^0_S K^0_S$
77 ±15		ABLIKIM	05	BES2	$J/\psi \to \phi K^+ K^-$
82 ± 2 ± 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 ±15	331	[18] ACCIARRI	01H	L3	91, 183–209 $e^+ e^- \to e^+ e^- K^0_S K^0_S$
60 ±20 ±19		ABREU	96C	DLPH	$Z^0 \to K^+ K^- + X$
$60 \pm 23 ^{+13}_{-20}$		BAI	96C	BES	$J/\psi \to \gamma K^+ K^-$
103 ±30		AUGUSTIN	88	DM2	$J/\psi \to \gamma K^+ K^-$
62 ±10		[19] FALVARD	88	DM2	$J/\psi \to \phi K^+ K^-$
85 ±35		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 $\overline{p}p$, πN
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*
$\mathbf{83 \pm 9^{+5}_{-4}}$		[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 $f_2(1270)$, $a_2^0(1320)$, 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	$\gamma\gamma$	$(1.10 \pm 0.14) \times 10^{-6}$

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 17 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 14.3$ for 13 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\left\langle\delta p_i \delta p_j\right\rangle/(\delta p_i \cdot \delta p_j)$, 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	−56
	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	$\gamma\gamma$	$(8.1 \pm 0.9) \times 10^{-5}$

$f_2'(1525)$ 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. • • •					
$0.13\ \pm0.03$	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.

$f_2'(1525)$ $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

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

VALUE (keV)	EVTS	DOCUMENT ID		TECN	COMMENT
0.072 ±0.007 OUR FIT					
0.072 ±0.007 OUR AVERAGE					
$0.048\ ^{+0.067}_{-0.008}\ ^{+0.108}_{-0.012}$		UEHARA	13	BELL	$\gamma\gamma \to K^0_S K^0_S$
$0.0564\pm0.0048\pm0.0116$		ABE	04	BELL	$10.6\ e^+e^- \to e^+e^- K^+K^-$
$0.076\ \pm0.006\ \pm0.011$	331	[28] ACCIARRI	01H	L3	$e^+e^- \to e^+e^- K^0_S K^0_S$
$0.067\ \pm0.008\ \pm0.015$		[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. • • •						
$0.0314\pm0.0050\pm0.0077$			[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						
$0.119\pm0.015\pm0.036$		61	[32] BINON	07	GAMS	$32.5\ K^- p \to \eta\eta(\Lambda/\Sigma^0)$
$0.11\ \pm0.04$			[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					
$0.007\ \pm0.002$		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	$J/\psi \to \gamma \pi^+ \pi^-$

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

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

AAIJ	13AN	PR D87 072004	R. Aaij *et al.*	(LHCb Collab.)
UEHARA	13	PTEP 2013 123C01	S. Uehara *et al.*	(BELLE Collab.)
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