

$f'_2(1525)$

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

$f'_2(1525)$ 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 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
1547 ⁺¹⁰ ₋₂		¹ LONGACRE 86	MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$
1496 ⁺⁹ ₋₈		² CHABAUD 81	ASPK	6 $\pi^- p \rightarrow K^+ K^- n$
1497 ⁺⁸ ₋₉		CHABAUD 81	ASPK	18.4 $\pi^- p \rightarrow K^+ K^- n$
1492±29		GORLICH 80	ASPK	17 $\pi^- p$ polarized $\rightarrow K^+ K^- n$
1502±25		³ CORDEN 79	OMEG	12–15 $\pi^- p \rightarrow \pi^+ \pi^- n$
1480	14	CRENNELL 66	HBC	6.0 $\pi^- p \rightarrow K_S^0 K_S^0 n$

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 $K^- p \rightarrow K_S^0 K_S^0 \Lambda$
1504 ±12		BOLONKIN 86	SPEC	40 $K^- p \rightarrow K_S^0 K_S^0 Y$
1529 ± 3		ARMSTRONG 83B	OMEG	18.5 $K^- p \rightarrow K^- K^+ \Lambda$
1521 ± 6	650	AGUILAR-... 81B	HBC	4.2 $K^- p \rightarrow \Lambda K^+ K^-$
1521 ± 3	572	ALHARRAN 81	HBC	8.25 $K^- p \rightarrow \Lambda K \bar{K}$
1522 ± 6	123	BARREIRO 77	HBC	4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$
1528 ± 7	166	EVANGELIS... 77	OMEG	10 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1527 ± 3	120	BRANDENB... 76C	ASPK	13 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1519 ± 7	100	AGUILAR-... 72B	HBC	3.9,4.6 $K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
1514 ± 8	61	BINON 07	GAMS	32.5 $K^- p \rightarrow \eta \eta (\Lambda / \Sigma^0)$
1513 ±10		⁴ BARKOV 99	SPEC	40 $K^- p \rightarrow K_S^0 K_S^0 y$

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	$J/\psi \rightarrow \phi K^+ K^-$
1518 ± 1 ± 3		ABE 04	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$
1519 ± 2 ⁺¹⁵ ₋₅		BAI 03G	BES	$J/\psi \rightarrow \gamma K \bar{K}$
1523 ± 6	331	⁵ ACCIARRI 01H	L3	91, 183–209 $e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$

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

PRODUCED IN $\bar{p}p$ ANNIHILATION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
1513 ± 4	AMSLER	06	CBAR 0.9 $\bar{p}p \rightarrow K^+ K^- \pi^0$
1508 ± 9	⁹ AMSLER	02	CBAR 0.9 $\bar{p}p \rightarrow \pi^0 \eta \eta, \pi^0 \pi^0 \pi^0$

CENTRAL PRODUCTION

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

PRODUCED IN $e p$ COLLISIONS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1512 ± 3 $\begin{smallmatrix} +1.4 \\ -0.5 \end{smallmatrix}$		¹⁰ CHEKANOV	08	ZEUS $e p \rightarrow K_S^0 K_S^0 X$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
1537 $\begin{smallmatrix} +9 \\ -8 \end{smallmatrix}$	84	¹¹ CHEKANOV	04	ZEUS $e p \rightarrow K_S^0 K_S^0 X$

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 $K\bar{K}$ 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 T-matrix pole.

¹⁰ 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.

¹¹ Systematic errors not estimated.

$f_2'(1525)$ WIDTH

VALUE (MeV)	DOCUMENT ID	COMMENT
73 $\begin{smallmatrix} +6 \\ -5 \end{smallmatrix}$ 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 $\pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
108 ⁺⁵ ₋₂	¹² LONGACRE 86	MPS	22 $\pi^- p \rightarrow K_S^0 K_S^0 n$
69 ⁺²² ₋₁₆	¹³ CHABAUD 81	ASPK	6 $\pi^- p \rightarrow K^+ K^- n$
137 ⁺²³ ₋₂₁	CHABAUD 81	ASPK	18.4 $\pi^- p \rightarrow K^+ K^- n$
150 ⁺⁸³ ₋₅₀	GORLICH 80	ASPK	17 $\pi^- p$ polarized $\rightarrow K^+ K^- n$
165 ± 42	¹⁴ CORDEN 79	OMEG	12–15 $\pi^- p \rightarrow \pi^+ \pi^- n$
92 ⁺³⁹ ₋₂₂	¹⁵ POLYCHRO... 79	STRC	7 $\pi^- p \rightarrow n K_S^0 K_S^0$

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 ± 12		ASTON 88D	LASS	11 $K^- p \rightarrow K_S^0 K_S^0 \Lambda$
73 ± 18		BOLONKIN 86	SPEC	40 $K^- p \rightarrow K_S^0 K_S^0 Y$
83 ± 15		ARMSTRONG 83B	OMEG	18.5 $K^- p \rightarrow K^- K^+ \Lambda$
85 ± 16	650	AGUILAR-... 81B	HBC	4.2 $K^- p \rightarrow \Lambda K^+ K^-$
80 ⁺¹⁴ ₋₁₁	572	ALHARRAN 81	HBC	8.25 $K^- p \rightarrow \Lambda K \bar{K}$
72 ± 25	166	EVANGELIS... 77	OMEG	10 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
69 ± 22	100	AGUILAR-... 72B	HBC	3.9, 4.6 $K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
92 ⁺²⁵ ₋₁₆	61	BINON 07	GAMS	32.5 $K^- p \rightarrow \eta \eta (\Lambda / \Sigma^0)$
75 ± 20		¹⁶ BARKOV 99	SPEC	40 $K^- p \rightarrow K_S^0 K_S^0 y$
62 ⁺¹⁹ ₋₁₄	123	BARREIRO 77	HBC	4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$
61 ± 8	120	BRANDENB... 76C	ASPK	13 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$

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 ± 15		ABLIKIM 05	BES2	$J/\psi \rightarrow \phi K^+ K^-$
82 ± 2 ± 3		ABE 04	BELL	10.6 $e^+ e^- \rightarrow e^+ e^- K^+ K^-$
75 ± 4 ⁺¹⁵ ₋₅		BAI 03G	BES	$J/\psi \rightarrow \gamma K \bar{K}$
100 ± 15	331	¹⁷ ACCIARRI 01H	L3	91, 183–209 $e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
60 ± 20 ± 19		ABREU 96C	DLPH	$Z^0 \rightarrow K^+ K^- + X$
60 ± 23 ⁺¹³ ₋₂₀		BAI 96C	BES	$J/\psi \rightarrow \gamma K^+ K^-$
103 ± 30		AUGUSTIN 88	DM2	$J/\psi \rightarrow \gamma K^+ K^-$
62 ± 10		¹⁸ FALVARD 88	DM2	$J/\psi \rightarrow \phi K^+ K^-$
85 ± 35		BALTRUSAIT..87	MRK3	$J/\psi \rightarrow \gamma K^+ K^-$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				

104 ± 10 870 ¹⁹ SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$
 100 ± 3 ²⁰ FALVARD 88 DM2 $J/\psi \rightarrow \phi K^+ K^-$

PRODUCED IN $\bar{p}p$ ANNIHILATION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
79\pm8	²¹ AMSLER	02	CBAR 0.9 $\bar{p}p \rightarrow \pi^0 \eta \eta, \pi^0 \pi^0 \pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
76 \pm 6	AMSLER	06	CBAR 0.9 $\bar{p}p \rightarrow K^+ K^- \pi^0$

CENTRAL PRODUCTION

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
70\pm25	BARBERIS	99	OMEG 450 $pp \rightarrow p_s p_f K^+ K^-$

PRODUCED IN ep COLLISIONS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
83\pm 9$^{+5}_{-4}$		²² CHEKANOV	08	ZEUS $ep \rightarrow K_S^0 K_S^0 X$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
50 $^{+34}_{-22}$	84	²³ CHEKANOV	04	ZEUS $ep \rightarrow K_S^0 K_S^0 X$

¹² From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

¹³ CHABAUD 81 is a reanalysis of PAWLICKI 77 data.

¹⁴ From an amplitude analysis where the $f_2'(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\bar{K}$ channel, making the solution dubious.

¹⁵ From a fit to the D with $f_2(1270)$ - $f_2'(1525)$ interference. Mass fixed at 1516 MeV.

¹⁶ Systematic errors not estimated.

¹⁷ Supersedes ACCIARRI 95J.

¹⁸ From an analysis ignoring interference with $f_0(1710)$.

¹⁹ From analysis of L3 data at 91 and 183–209 GeV.

²⁰ From an analysis including interference with $f_0(1710)$.

²¹ T-matrix pole.

²² 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.

²³ Systematic errors not estimated.

$f_2'(1525)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $K\bar{K}$	(88.7 \pm 2.2) %
Γ_2 $\eta\eta$	(10.4 \pm 2.2) %
Γ_3 $\pi\pi$	(8.2 \pm 1.5) $\times 10^{-3}$
Γ_4 $K\bar{K}^*(892) + \text{c.c.}$	
Γ_5 $\pi K\bar{K}$	
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, $x_i \equiv \Gamma_i / \Gamma_{\text{total}}$. 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 $K\bar{K}$	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

$\Gamma(K\bar{K})$	Γ_1
<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>

65 $^{+5}_{-4}$ OUR FIT

63 $^{+6}_{-5}$ ²⁴ LONGACRE 86 MPS 22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\eta\eta)$	Γ_2
<u>VALUE (MeV)</u>	<u>EVTS</u> <u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>

7.6 ± 1.8 OUR FIT

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

5.0 ± 0.8 870 ²⁵ SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$

²⁴ $^{+3}_{-1}$ ²⁴ LONGACRE 86 MPS 22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\pi\pi)$ Γ_3

VALUE (MeV) EVTS DOCUMENT ID TECN COMMENT

0.60 ± 0.12 OUR FIT

1.4 $\begin{smallmatrix} +1.0 \\ -0.5 \end{smallmatrix}$ 24 LONGACRE 86 MPS 22 $\pi^- p \rightarrow K_S^0 K_S^0 n$

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

0.2 $\begin{smallmatrix} +1.0 \\ -0.2 \end{smallmatrix}$ 870 25 SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$

$\Gamma(\gamma\gamma)$ 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 25 SCHEGELSKY 06A RVUE $\gamma\gamma \rightarrow K_S^0 K_S^0$

²⁴ From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

²⁵ From analysis of L3 data at 91 and 183–209 GeV, using $\Gamma(f_2'(1525) \rightarrow K\bar{K}) = 68$ MeV and SU(3) relations.

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

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

VALUE (keV) EVTS DOCUMENT ID TECN COMMENT

0.072 ± 0.007 OUR FIT

0.072 ± 0.007 OUR AVERAGE

0.0564 ± 0.0048 ± 0.0116 ABE 04 BELL 10.6 $e^+e^- \rightarrow e^+e^- K^+K^-$

0.076 ± 0.006 ± 0.011 331 26 ACCIARRI 01H L3 $e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$

0.067 ± 0.008 ± 0.015 27 ALBRECHT 90G ARG $e^+e^- \rightarrow e^+e^- K^+K^-$

0.11 $\begin{smallmatrix} +0.03 \\ -0.02 \end{smallmatrix}$ ± 0.02 BEHREND 89C CELL $e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$

0.10 $\begin{smallmatrix} +0.04 \\ -0.03 \end{smallmatrix}$ $\begin{smallmatrix} +0.03 \\ -0.02 \end{smallmatrix}$ BERGER 88 PLUT $e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$

0.12 ± 0.07 ± 0.04 27 AIHARA 86B TPC $e^+e^- \rightarrow e^+e^- K^+K^-$

0.11 ± 0.02 ± 0.04 27 ALTHOFF 83 TASS $e^+e^- \rightarrow e^+e^- K\bar{K}$

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

0.0314 ± 0.0050 ± 0.0077 28 ALBRECHT 90G ARG $e^+e^- \rightarrow e^+e^- K^+K^-$

²⁶ Supersedes ACCIARRI 95J. From analysis of L3 data at 91 and 183–209 GeV,

²⁷ Using an incoherent background.

²⁸ Using a coherent background.

$f_2'(1525)$ BRANCHING RATIOS

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

VALUE DOCUMENT ID TECN COMMENT

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

0.10 ± 0.03 29 PROKOSHKIN 91 GAM4 300 $\pi^- p \rightarrow \pi^- p \eta\eta$

²⁹ Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma\eta\eta$.

$\Gamma(\eta\eta)/\Gamma(K\bar{K})$

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 ³⁰ BINON 07 GAMS 32.5 $K^- p \rightarrow \eta\eta(\Lambda/\Sigma^0)$

0.11 ±0.04 ³¹ PROKOSHKIN 91 GAM4 300 $\pi^- p \rightarrow \pi^- p \eta\eta$

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

< 0.14 90 BARBERIS 00E 450 $pp \rightarrow p_f \eta\eta p_S$

< 0.50 BARNES 67 HBC 4.6,5.0 $K^- p$

³⁰ Using the compilation of the cross sections for $f_2'(1525)$ production in $K^- p$ collisions from ASTON 88D.

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

$\Gamma(\pi\pi)/\Gamma_{\text{total}}$

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 $\pi^- p \rightarrow K^+ K^- n$

0.027 ^{+0.071}/_{-0.013} ³² GORLICH 80 ASPK 17,18 $\pi^- p$

0.0075±0.0025 ^{32,33} MARTIN 79 RVUE

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

<0.06 95 AGUILAR-... 81B HBC 4.2 $K^- p \rightarrow \Lambda K^+ K^-$

0.19 ±0.03 CORDEN 79 OMEG 12-15 $\pi^- p \rightarrow \pi^+ \pi^- n$

<0.045 95 BARREIRO 77 HBC 4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$

0.012 ±0.004 ³² PAWLICKI 77 SPEC 6 $\pi N \rightarrow K^+ K^- N$

<0.063 90 BRANDENB... 76C ASPK 13 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$

<0.0086 ³² BEUSCH 75B OSPK 8.9 $\pi^- p \rightarrow K^0 \bar{K}^0 n$

³² Assuming that the $f_2'(1525)$ is produced by an one-pion exchange production mechanism.

³³ MARTIN 79 uses the PAWLICKI 77 data with different input value of the $f_2'(1525) \rightarrow K\bar{K}$ branching ratio.

$\Gamma(\pi\pi)/\Gamma(K\bar{K})$

Γ_3/Γ_1

VALUE DOCUMENT ID TECN COMMENT

0.0092±0.0018 OUR FIT

0.075 ±0.035

AUGUSTIN 87 DM2 $J/\psi \rightarrow \gamma\pi^+\pi^-$

$[\Gamma(K\bar{K}^*(892)+\text{c.c.}) + \Gamma(\pi K\bar{K})]/\Gamma(K\bar{K})$

$(\Gamma_4+\Gamma_5)/\Gamma_1$

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

$\Gamma(\pi\pi\eta)/\Gamma(K\bar{K})$

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

$$\Gamma(\pi^+\pi^+\pi^-\pi^-)/\Gamma(K\bar{K})$$

$$\Gamma_7/\Gamma_1$$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<0.32	95	AGUILAR-...	72B HBC	3.9,4.6 $K^- p$

$f'_2(1525)$ REFERENCES

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

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ALBERICO	98	PL B438 430	A. Alberico <i>et al.</i>	(Obelix Collab.)
JENNI	83	PR D27 1031	P. Jenni <i>et al.</i>	(SLAC, LBL)
ARMSTRONG	82	PL 110B 77	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)
ETKIN	82B	PR D25 1786	A. Etkin <i>et al.</i>	(BNL, CUNY, TUFTS, VAND)
ABRAMS	67B	PRL 18 620	G.S. Abrams <i>et al.</i>	(UMD)
BARNES	65	PRL 15 322	V.E. Barnes <i>et al.</i>	(BNL, SYRA)
