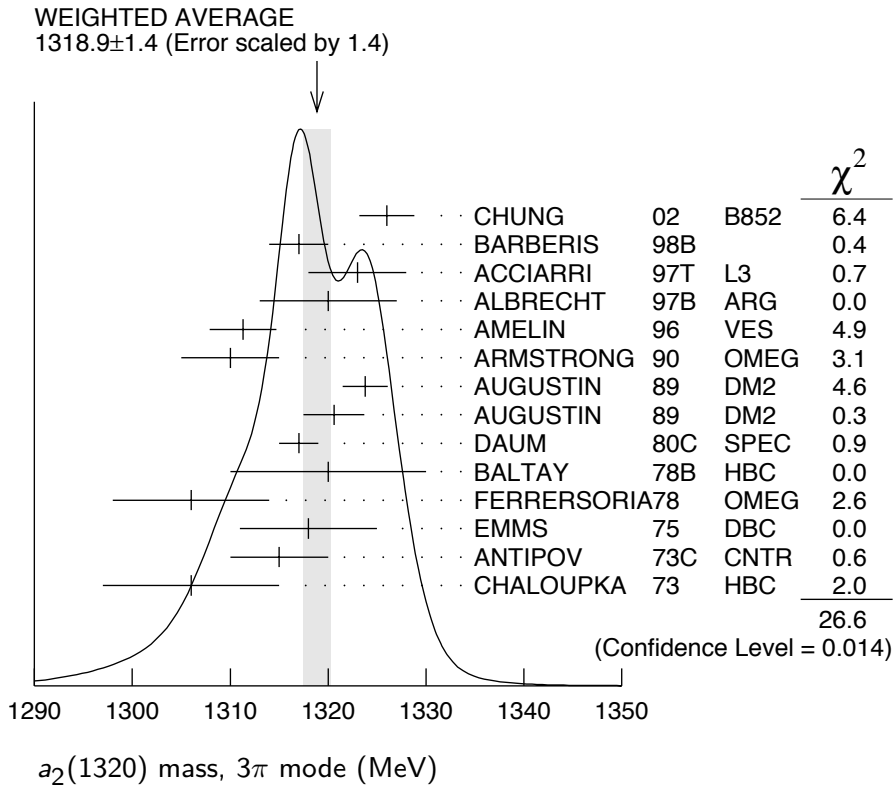


- ¹ From a fit to $J^P = 2^+ \rho\pi$ partial wave.
² From analysis of L3 data at 183–209 GeV.



$K\bar{K}$ MODE

VALUE (MeV) EVTS DOCUMENT ID TECN CHG COMMENT
 The data in this block is included in the average printed for a previous datablock.

1318.1 ± 0.7 OUR AVERAGE

1319 ± 5	4700	^{3,4} CLELAND	82B	SPEC	+	50 $\pi^+ p \rightarrow K_S^0 K^+ p$
1324 ± 6	5200	^{3,4} CLELAND	82B	SPEC	-	50 $\pi^- p \rightarrow K_S^0 K^- p$
1320 ± 2	4000	CHABAUD	80	SPEC	-	17 $\pi^- A \rightarrow K_S^0 K^- A$
1312 ± 4	11000	CHABAUD	78	SPEC	-	9.8 $\pi^- p \rightarrow K^- K_S^0 p$
1316 ± 2	4730	CHABAUD	78	SPEC	-	18.8 $\pi^- p \rightarrow K^- K_S^0 p$
1318 ± 1		^{3,5} MARTIN	78D	SPEC	-	10 $\pi^- p \rightarrow K_S^0 K^- p$
1320 ± 2	2724	MARGULIE	76	SPEC	-	23 $\pi^- p \rightarrow K^- K_S^0 p$
1313 ± 4	730	FOLEY	72	CNTR	-	20.3 $\pi^- p \rightarrow K^- K_S^0 p$
1319 ± 3	1500	⁵ GRAYER	71	ASPK	-	17.2 $\pi^- p \rightarrow K^- K_S^0 p$

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

1304 ± 10	870	⁶ SCHEGELSKY	06A	RVUE	0	$\gamma\gamma \rightarrow K_S^0 K_S^0$
1330 ± 11	1000	^{3,4} CLELAND	82B	SPEC	+	30 $\pi^+ p \rightarrow K_S^0 K^+ p$
1324 ± 5	350	HYAMS	78	ASPK	+	12.7 $\pi^+ p \rightarrow K^+ K_S^0 p$

- ³ From a fit to $J^P = 2^+$ partial wave.
⁴ Number of events evaluated by us.
⁵ Systematic error in mass scale subtracted.
⁶ From analysis of L3 data at 91 and 183–209 GeV.

$\eta\pi$ MODE

VALUE (MeV) EVTS DOCUMENT ID TECN CHG COMMENT
 The data in this block is included in the average printed for a previous datablock.

1317.7±1.4 OUR AVERAGE

1308 ±9		BARBERIS	00H		450 $p p \rightarrow p_f \eta \pi^0 p_s$
1316 ±9		BARBERIS	00H		450 $p p \rightarrow \Delta_f^{++} \eta \pi^- p_s$
1317 ±1 ±2		THOMPSON	97	MPS	18 $\pi^- p \rightarrow \eta \pi^- p$
1315 ±5 ±2		⁷ AMSLER	94D	CBAR	0.0 $\bar{p} p \rightarrow \pi^0 \pi^0 \eta$
1325.1±5.1		AOYAGI	93	BKEI	$\pi^- p \rightarrow \eta \pi^- p$
1317.7±1.4±2.0		BELADIDZE	93	VES	37 $\pi^- N \rightarrow \eta \pi^- N$
1323 ±8	1000	⁸ KEY	73	OSPK	– 6 $\pi^- p \rightarrow p \pi^- \eta$

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

1324 ±5		ARMSTRONG	93C	E760	0 $\bar{p} p \rightarrow \pi^0 \eta \eta \rightarrow 6\gamma$
1336.2±1.7	2561	DELFOSSÉ	81	SPEC	+ $\pi^\pm p \rightarrow p \pi^\pm \eta$
1330.7±2.4	1653	DELFOSSÉ	81	SPEC	– $\pi^\pm p \rightarrow p \pi^\pm \eta$
1324 ±8	6200	^{8,9} CONFORTO	73	OSPK	– 6 $\pi^- p \rightarrow p \pi^- \eta$

⁷ The systematic error of 2 MeV corresponds to the spread of solutions.

⁸ Error includes 5 MeV systematic mass-scale error.

⁹ Missing mass with enriched MMS = $\eta \pi^-$, $\eta = 2\gamma$.

$\eta' \pi$ MODE

VALUE (MeV) DOCUMENT ID TECN COMMENT
 The data in this block is included in the average printed for a previous datablock.

1322 ± 7 OUR AVERAGE

1318 ± 8 $\begin{smallmatrix} +3 \\ -5 \end{smallmatrix}$		IVANOV	01	B852	18 $\pi^- p \rightarrow \eta' \pi^- p$
1327.0±10.7		BELADIDZE	93	VES	37 $\pi^- N \rightarrow \eta' \pi^- N$

$a_2(1320)$ WIDTH

3 π MODE

VALUE (MeV) EVTS DOCUMENT ID TECN CHG COMMENT

104.7± 1.9 OUR AVERAGE

108 ± 3 ±15		CHUNG	02	B852	18.3 $\pi^- p \rightarrow \pi^+ \pi^- \pi^- p$
120 ±10		BARBERIS	98B		450 $p p \rightarrow p_f \pi^+ \pi^- \pi^0 p_s$
105 ±10 ±11		ACCIARRI	97T	L3	$e^+ e^- \rightarrow e^+ e^- \pi^+ \pi^- \pi^0$
120 ±10		ALBRECHT	97B	ARG	$e^+ e^- \rightarrow e^+ e^- \pi^+ \pi^- \pi^0$
103.0± 6.0± 3.3	72.4k	AMELIN	96	VES	36 $\pi^- p \rightarrow \pi^+ \pi^- \pi^0 n$
120 ±10		ARMSTRONG	90	OMEG	0 300.0 $p p \rightarrow p p \pi^+ \pi^- \pi^0$
107.0± 9.7	4022	AUGUSTIN	89	DM2	± $J/\psi \rightarrow \rho^\pm a_2^\mp$
118.5±12.5	3562	AUGUSTIN	89	DM2	0 $J/\psi \rightarrow \rho^0 a_2^0$
97 ± 5		¹⁰ EVANGELIS...	81	OMEG	– 12 $\pi^- p \rightarrow 3\pi p$

96 ± 9	25k	¹⁰ DAUM	80C	SPEC	−	63,94 $\pi^- p \rightarrow 3\pi p$
110 ± 15	1097	¹⁰ BALTAY	78B	HBC	+0	15 $\pi^+ p \rightarrow p4\pi$
112 ± 18	1.6k	¹⁰ EMMS	75	DBC	0	4 $\pi^+ n \rightarrow p(3\pi)^0$
122 ± 14	1.2k	^{10,11} WAGNER	75	HBC	0	7 $\pi^+ p \rightarrow$ $\Delta^{++}(3\pi)^0$
115 ± 15		¹⁰ ANTIPOV	73C	CNTR	−	25,40 $\pi^- p \rightarrow$ $p\eta\pi^-$
99 ± 15	1580	CHALOUPKA	73	HBC	−	3.9 $\pi^- p$
105 ± 5	28k	BOWEN	71	MMS	−	5 $\pi^- p$
99 ± 5	24k	BOWEN	71	MMS	+	5 $\pi^+ p$
103 ± 5	17k	BOWEN	71	MMS	−	7 $\pi^- p$

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

117 ± 6 ± 20	18k	¹² SCHEGELSKY	06	RVUE	0	$\gamma\gamma \rightarrow \pi^+\pi^-\pi^0$
120 ± 40		CONDO	93	SHF		$\gamma p \rightarrow \eta\pi^+\pi^+\pi^-$
115 ± 14	490	BALTAY	78B	HBC	0	15 $\pi^+ p \rightarrow \Delta 3\pi$
72 ± 16	5k	BINNIE	71	MMS	−	$\pi^- p$ near a_2 thresh- old
79 ± 12	941	ALSTON-...	70	HBC	+	7.0 $\pi^+ p \rightarrow 3\pi p$

¹⁰ From a fit to $J^P = 2^+$ $\rho\pi$ partial wave.

¹¹ Width errors enlarged by us to $4\Gamma/\sqrt{N}$; see the note with the $K^*(892)$ mass.

¹² From analysis of L3 data at 183–209 GeV.

$K\bar{K}$ AND $\eta\pi$ MODES

VALUE (MeV)

DOCUMENT ID

107 ± 5 OUR ESTIMATE

110.4 ± 1.7 OUR AVERAGE Includes data from the 2 datablocks that follow this one.

$K\bar{K}$ MODE

VALUE (MeV)

EVTS

DOCUMENT ID

TECN

CHG

COMMENT

The data in this block is included in the average printed for a previous datablock.

109.8 ± 2.4 OUR AVERAGE

112 ± 20	4700	^{13,14} CLELAND	82B	SPEC	+	50 $\pi^+ p \rightarrow K_S^0 K^+ p$
120 ± 25	5200	^{13,14} CLELAND	82B	SPEC	−	50 $\pi^- p \rightarrow K_S^0 K^- p$
106 ± 4	4000	CHABAUD	80	SPEC	−	17 $\pi^- A \rightarrow K_S^0 K^- A$
126 ± 11	11000	CHABAUD	78	SPEC	−	9.8 $\pi^- p \rightarrow K^- K_S^0 p$
101 ± 8	4730	CHABAUD	78	SPEC	−	18.8 $\pi^- p \rightarrow K^- K_S^0 p$
113 ± 4		^{13,15} MARTIN	78D	SPEC	−	10 $\pi^- p \rightarrow K_S^0 K^- p$
105 ± 8	2724	¹⁵ MARGULIE	76	SPEC	−	23 $\pi^- p \rightarrow K^- K_S^0 p$
113 ± 19	730	FOLEY	72	CNTR	−	20.3 $\pi^- p \rightarrow K^- K_S^0 p$
123 ± 13	1500	¹⁵ GRAYER	71	ASPK	−	17.2 $\pi^- p \rightarrow K^- K_S^0 p$

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

120 ± 15	870	¹⁶ SCHEGELSKY	06A	RVUE	0	$\gamma\gamma \rightarrow K_S^0 K_S^0$
121 ± 51	1000	^{13,14} CLELAND	82B	SPEC	+	30 $\pi^+ p \rightarrow K_S^0 K^+ p$
110 ± 18	350	HYAMS	78	ASPK	+	12.7 $\pi^+ p \rightarrow K^+ K_S^0 p$

¹³ From a fit to $J^P = 2^+$ partial wave.

¹⁴ Number of events evaluated by us.

¹⁵ Width errors enlarged by us to $4\Gamma/\sqrt{N}$; see the note with the $K^*(892)$ mass.

¹⁶ From analysis of L3 data at 91 and 183–209 GeV.

$\eta\pi$ MODE

VALUE (MeV) EVTS DOCUMENT ID TECN CHG COMMENT
 The data in this block is included in the average printed for a previous datablock.

111.1 ± 2.4 OUR AVERAGE

115 ± 20		BARBERIS	00H			450 $p p \rightarrow p_f \eta \pi^0 p_s$
112 ± 14		BARBERIS	00H			450 $p p \rightarrow \Delta_f^{++} \eta \pi^- p_s$
112 ± 3 ± 2		¹⁷ AMSLER	94D	CBAR		0.0 $\bar{p} p \rightarrow \pi^0 \pi^0 \eta$
103 ± 6 ± 3		BELADIDZE	93	VES		37 $\pi^- N \rightarrow \eta \pi^- N$
112.2 ± 5.7	2561	DELFOSSÉ	81	SPEC	+	$\pi^\pm p \rightarrow p \pi^\pm \eta$
116.6 ± 7.7	1653	DELFOSSÉ	81	SPEC	-	$\pi^\pm p \rightarrow p \pi^\pm \eta$
108 ± 9	1000	KEY	73	OSPK	-	6 $\pi^- p \rightarrow p \pi^- \eta$

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

127 ± 2 ± 2		¹⁸ THOMPSON	97	MPS		18 $\pi^- p \rightarrow \eta \pi^- p$
118 ± 10		ARMSTRONG	93C	E760	0	$\bar{p} p \rightarrow \pi^0 \eta \eta \rightarrow 6\gamma$
104 ± 9	6200	¹⁹ CONFORTO	73	OSPK	-	6 $\pi^- p \rightarrow p \pi^- \eta$

¹⁷ The systematic error of 2 MeV corresponds to the spread of solutions.

¹⁸ Resolution is not unfolded.

¹⁹ Missing mass with enriched MMS = $\eta \pi^-$, $\eta = 2\gamma$.

$\eta' \pi$ MODE

VALUE (MeV) DOCUMENT ID TECN COMMENT
119 ± 25 OUR AVERAGE

140 ± 35 ± 20		IVANOV	01	B852		18 $\pi^- p \rightarrow \eta' \pi^- p$
106 ± 32		BELADIDZE	93	VES		37 $\pi^- N \rightarrow \eta' \pi^- N$

$a_2(1320)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)	Scale factor/ Confidence level
Γ_1 3π	(70.1 ± 2.7) %	S=1.2
Γ_2 $\rho(770)\pi$		
Γ_3 $f_2(1270)\pi$		
Γ_4 $\rho(1450)\pi$		
Γ_5 $\eta\pi$	(14.5 ± 1.2) %	
Γ_6 $\omega\pi\pi$	(10.6 ± 3.2) %	S=1.3
Γ_7 $K\bar{K}$	(4.9 ± 0.8) %	
Γ_8 $\eta'(958)\pi$	(5.3 ± 0.9) × 10 ⁻³	
Γ_9 $\pi^\pm\gamma$	(2.68 ± 0.31) × 10 ⁻³	
Γ_{10} $\gamma\gamma$	(9.4 ± 0.7) × 10 ⁻⁶	
Γ_{11} e^+e^-	< 6 × 10 ⁻⁹	CL=90%

CONSTRAINED FIT INFORMATION

An overall fit to 5 branching ratios uses 18 measurements and one constraint to determine 4 parameters. The overall fit has a $\chi^2 = 9.3$ for 15 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta x_i \delta x_j \rangle / (\delta x_i \delta x_j)$, in percent, from the fit to 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_5	10		
x_6	-89	-46	
x_7	-1	-2	-24
	x_1	x_5	x_6

 $a_2(1320)$ PARTIAL WIDTHS **$\Gamma(\eta\pi)$ Γ_5**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

18.5 ± 3.0	870	²⁰ SCHEGELSKY 06A	RVUE	0	$\gamma\gamma \rightarrow K_S^0 K_S^0$
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²⁰ From analysis of L3 data at 91 and 183–209 GeV, using $\Gamma(a_2(1320) \rightarrow \gamma\gamma) = 0.91$ keV and SU(3) relations.

 $\Gamma(K\bar{K})$ Γ_7

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

7.0 ^{+2.0} _{-1.5}	870	²¹ SCHEGELSKY 06A	RVUE	0	$\gamma\gamma \rightarrow K_S^0 K_S^0$
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²¹ From analysis of L3 data at 91 and 183–209 GeV, using $\Gamma(a_2(1320) \rightarrow \gamma\gamma) = 0.91$ keV and SU(3) relations.

 $\Gamma(\pi^\pm\gamma)$ Γ_9

VALUE (keV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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287 ± 30 OUR AVERAGE

284 ± 25 ± 25	7100	MOLCHANOV 01	SELX		600 $\pi^- A \rightarrow \pi^+ \pi^- \pi^- A$
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295 ± 60		CIHANGIR 82	SPEC	+	200 $\pi^+ A$
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• • • We do not use the following data for averages, fits, limits, etc. • • •

461 ± 110		²² MAY	77	SPEC	± 9.7 γA
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²² Assuming one-pion exchange.

$\Gamma(\gamma\gamma)$ **Γ_{10}**

<u>VALUE (keV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
1.00±0.06 OUR AVERAGE					
0.98±0.05±0.09		ACCIARRI	97T	L3	$e^+e^- \rightarrow e^+e^-\pi^+\pi^-\pi^0$
0.96±0.03±0.13		ALBRECHT	97B	ARG	$e^+e^- \rightarrow e^+e^-\pi^+\pi^-\pi^0$
1.26±0.26±0.18	36	BARU	90	MD1	$e^+e^- \rightarrow e^+e^-\pi^+\pi^-\pi^0$
1.00±0.07±0.15	415	BEHREND	90C	CELL 0	$e^+e^- \rightarrow e^+e^-\pi^+\pi^-\pi^0$
1.03±0.13±0.21		BUTLER	90	MRK2	$e^+e^- \rightarrow e^+e^-\pi^+\pi^-\pi^0$
1.01±0.14±0.22	85	OEST	90	JADE	$e^+e^- \rightarrow e^+e^-\pi^0\eta$
0.90±0.27±0.15	56	²³ ALTHOFF	86	TASS 0	$e^+e^- \rightarrow e^+e^-3\pi$
1.14±0.20±0.26		²⁴ ANTREASYAN	86	CBAL 0	$e^+e^- \rightarrow e^+e^-\pi^0\eta$
1.06±0.18±0.19		BERGER	84C	PLUT 0	$e^+e^- \rightarrow e^+e^-3\pi$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.81±0.19 ^{+0.42} _{-0.11}	35	²³ BEHREND	83B	CELL 0	$e^+e^- \rightarrow e^+e^-3\pi$
0.77±0.18±0.27	22	²⁴ EDWARDS	82F	CBAL 0	$e^+e^- \rightarrow e^+e^-\pi^0\eta$
²³ From $\rho\pi$ decay mode.					
²⁴ From $\eta\pi^0$ decay mode.					

$\Gamma(e^+e^-)$ **Γ_{11}**

<u>VALUE (eV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 0.56	90	ACHASOV	00K	SND $e^+e^- \rightarrow \pi^0\pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<25	90	VOROBYEV	88	ND $e^+e^- \rightarrow \pi^0\eta$

$a_2(1320) \Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

$\Gamma(3\pi) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$ **$\Gamma_1\Gamma_{10}/\Gamma$**

<u>VALUE (keV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.65±0.02±0.02	18k	²⁵ SCHEGELSKY	06	RVUE $\gamma\gamma \rightarrow \pi^+\pi^-\pi^0$
²⁵ From analysis of L3 data at 183–209 GeV.				

$\Gamma(K\bar{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$ **$\Gamma_7\Gamma_{10}/\Gamma$**

<u>VALUE (keV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.126±0.007±0.028	²⁶ ALBRECHT	90G	ARG $e^+e^- \rightarrow e^+e^-K^+K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
0.081±0.006±0.027	²⁷ ALBRECHT	90G	ARG $e^+e^- \rightarrow e^+e^-K^+K^-$
²⁶ Using an incoherent background.			
²⁷ Using a coherent background.			

$a_2(1320)$ BRANCHING RATIOS

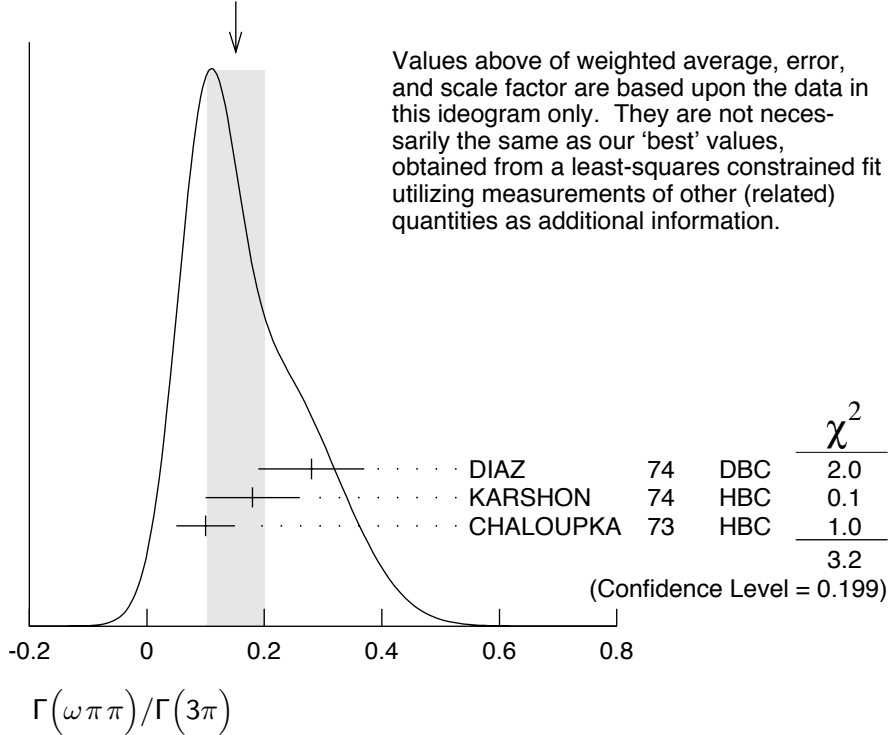
$[\Gamma(f_2(1270)\pi) + \Gamma(\rho(1450)\pi)]/\Gamma(\rho(770)\pi)$						$(\Gamma_3+\Gamma_4)/\Gamma_2$
<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
<0.12	90	ABRAMOVI...	70B	HBC	-	3.93 $\pi^- p$

$\Gamma(\eta\pi)/\Gamma(3\pi)$						Γ_5/Γ_1
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
0.207±0.018 OUR FIT						
0.213±0.020 OUR AVERAGE						
0.18 ±0.05		FORINO	76	HBC		11 $\pi^- p$
0.22 ±0.05	52	ANTIPOV	73	CNTR	-	40 $\pi^- p$
0.211±0.044	149	CHALOUPKA	73	HBC	-	3.9 $\pi^- p$
0.246±0.042	167	ALSTON-...	71	HBC	+	7.0 $\pi^+ p$
0.25 ±0.09	15	BOECKMANN	70	HBC	+	5.0 $\pi^+ p$
0.23 ±0.08	22	ASCOLI	68	HBC	-	5 $\pi^- p$
0.12 ±0.08		CHUNG	68	HBC	-	3.2 $\pi^- p$
0.22 ±0.09		CONTE	67	HBC	-	11.0 $\pi^- p$

$\Gamma(\omega\pi\pi)/\Gamma(3\pi)$						Γ_6/Γ_1
<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
0.15±0.05 OUR FIT Error includes scale factor of 1.3.						
0.15±0.05 OUR AVERAGE Error includes scale factor of 1.3. See the ideogram below.						
0.28±0.09	60	DIAZ	74	DBC	0	6 $\pi^+ n$
0.18±0.08		²⁸ KARSHON	74	HBC		Avg. of above two
0.10±0.05	279	CHALOUPKA	73	HBC	-	3.9 $\pi^- p$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●						
0.29±0.08	140	²⁸ KARSHON	74	HBC	0	4.9 $\pi^+ p$
0.10±0.04	60	²⁸ KARSHON	74	HBC	+	4.9 $\pi^+ p$
0.19±0.08		DEFOIX	73	HBC	0	0.7 $\bar{p}p$

²⁸KARSHON 74 suggest an additional $I = 0$ state strongly coupled to $\omega\pi\pi$ which could explain discrepancies in branching ratios and masses. We use a central value and a systematic spread.

WEIGHTED AVERAGE
 0.15 ± 0.05 (Error scaled by 1.3)



$\Gamma(K\bar{K})/\Gamma(3\pi)$

Γ_7/Γ_1

VALUE	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
0.070 ± 0.012					OUR FIT
0.078 ± 0.017		CHABAUD 78	RVUE		
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
0.011 ± 0.003		²⁹ BERTIN 98B	OBLX		$0.0 \bar{p}p \rightarrow K^\pm K_S \pi^\mp$
0.056 ± 0.014	50	³⁰ CHALOUPKA 73	HBC	-	$3.9 \pi^- p$
0.097 ± 0.018	113	³⁰ ALSTON-... 71	HBC	+	$7.0 \pi^+ p$
0.06 ± 0.03		³⁰ ABRAMOVI... 70B	HBC	-	$3.93 \pi^- p$
0.054 ± 0.022		³⁰ CHUNG 68	HBC	-	$3.2 \pi^- p$

²⁹ Using 4π data from BERTIN 97D.
³⁰ Included in CHABAUD 78 review.

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

Γ_7/Γ_5

VALUE	DOCUMENT ID	TECN	COMMENT
0.08 ± 0.02	³¹ BERTIN 98B	OBLX	$0.0 \bar{p}p \rightarrow K^\pm K_S \pi^\mp$

³¹ Using $\eta\pi\pi$ data from AMSLER 94D.

$\Gamma(\eta\pi)/[\Gamma(3\pi) + \Gamma(\eta\pi) + \Gamma(K\bar{K})]$

$\Gamma_5/(\Gamma_1 + \Gamma_5 + \Gamma_7)$

VALUE	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
0.162 ± 0.012					OUR FIT
0.140 ± 0.028					OUR AVERAGE
0.13 ± 0.04		ESPIGAT 72	HBC	±	$0.0 \bar{p}p$
0.15 ± 0.04	34	BARNHAM 71	HBC	+	$3.7 \pi^+ p$

$\Gamma(K\bar{K})/[\Gamma(3\pi) + \Gamma(\eta\pi) + \Gamma(K\bar{K})]$ $\Gamma_7/(\Gamma_1+\Gamma_5+\Gamma_7)$

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
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0.054±0.009 OUR FIT

0.048±0.012 OUR AVERAGE

0.05 ±0.02		TOET	73	HBC	+	5 $\pi^+ p$
0.09 ±0.04		TOET	73	HBC	0	5 $\pi^+ p$
0.03 ±0.02	8	DAMERI	72	HBC	-	11 $\pi^- p$
0.06 ±0.03	17	BARNHAM	71	HBC	+	3.7 $\pi^+ p$

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

0.020±0.004		³² ESPIGAT	72	HBC	±	0.0 $\bar{p}p$
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³²Not averaged because of discrepancy between masses from $K\bar{K}$ and $\rho\pi$ modes.

$\Gamma(\eta'(958)\pi)/\Gamma_{\text{total}}$ Γ_8/Γ

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
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• • • We do not use the following data for averages, fits, limits, etc. • • •

<0.006	95	ALDE	92B	GAM2		38,100 $\pi^- p \rightarrow \eta' \pi^0 n$
<0.02	97	BARNHAM	71	HBC	+	3.7 $\pi^+ p$
0.004±0.004		BOESEBECK	68	HBC	+	8 $\pi^+ p$

$\Gamma(\eta'(958)\pi)/\Gamma(3\pi)$ Γ_8/Γ_1

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
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• • • We do not use the following data for averages, fits, limits, etc. • • •

<0.011	90	EISENSTEIN	73	HBC	-	5 $\pi^- p$
<0.04		ALSTON-...	71	HBC	+	7.0 $\pi^+ p$
0.04 $\begin{smallmatrix} +0.03 \\ -0.04 \end{smallmatrix}$		BOECKMANN	70	HBC	0	5.0 $\pi^+ p$

$\Gamma(\eta'(958)\pi)/\Gamma(\eta\pi)$ Γ_8/Γ_5

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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0.037±0.006 OUR AVERAGE

0.032±0.009	ABELE	97C	CBAR	0.0 $\bar{p}p \rightarrow \pi^0 \pi^0 \eta'$
0.047±0.010±0.004	³³ BELADIDZE	93	VES	37 $\pi^- N \rightarrow a_2^- N$
0.034±0.008±0.005	BELADIDZE	92	VES	36 $\pi^- C \rightarrow a_2^- C$

³³Using $B(\eta' \rightarrow \pi^+ \pi^- \eta) = 0.441$, $B(\eta \rightarrow \gamma\gamma) = 0.389$ and $B(\eta \rightarrow \pi^+ \pi^- \pi^0) = 0.236$.

$\Gamma(\pi^\pm \gamma)/\Gamma_{\text{total}}$ Γ_9/Γ

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.005 $\begin{smallmatrix} +0.005 \\ -0.003 \end{smallmatrix}$	³⁴ EISENBERG	72	HBC	4.3,5.25,7.5 γp
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³⁴Pion-exchange model used in this estimation.

$\Gamma(e^+ e^-)/\Gamma_{\text{total}}$ Γ_{11}/Γ

<u>VALUE (units 10⁻⁹)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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<6	90	ACHASOV	00K	SND $e^+ e^- \rightarrow \pi^0 \pi^0$
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