

$K_2^*(1430)$

$$I(J^P) = \frac{1}{2}(2^+)$$

We consider that phase-shift analyses provide more reliable determinations of the mass and width.

 $K_2^*(1430)$ T-MATRIX POLE $\sqrt{s}$

Note that $\Gamma = -2 \operatorname{Im}(\sqrt{s})$.

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
(1424 ± 4)– i (66 ± 2) OUR ESTIMATE			
(1424 ± 4)– i (66 ± 2)	¹ PELAEZ	17 RVUE	$\pi K \rightarrow \pi K$
¹ Reanalysis of ESTABROOKS 78 and ASTON 88 satisfying Forward Dispersion Relations and using sequences of Pade approximants.			

 $K_2^*(1430)$ MASS**CHARGED ONLY, WITH FINAL STATE $K\pi$**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
1427.3 ± 1.5 OUR AVERAGE Error includes scale factor of 1.3. See the ideogram below.					
1432.7 ± 0.7 ^{+2.2} _{−2.3}	183k	ABLIKIM	19AQ BES	±	$J/\psi \rightarrow K^+ K^- \pi^0$
1420 ± 4	1587	BAUBILLIER	84B HBC	−	$8.25 K^- p \rightarrow \bar{K}^0 \pi^- p$
1436 ± 5.5	400	^{1,2} CLELAND	82 SPEC	+	$30 K^+ p \rightarrow K_S^0 \pi^+ p$
1430 ± 3.2	1500	^{1,2} CLELAND	82 SPEC	+	$50 K^+ p \rightarrow K_S^0 \pi^+ p$
1430 ± 3.2	1200	^{1,2} CLELAND	82 SPEC	−	$50 K^+ p \rightarrow K_S^0 \pi^- p$
1423 ± 5	935	TOAFF	81 HBC	−	$6.5 K^- p \rightarrow \bar{K}^0 \pi^- p$
1428.0 ± 4.6		³ MARTIN	78 SPEC	+	$10 K^\pm p \rightarrow K_S^0 \pi p$
1423.8 ± 4.6		³ MARTIN	78 SPEC	−	$10 K^\pm p \rightarrow K_S^0 \pi p$
1420.0 ± 3.1	1400	AGUILAR-...	71B HBC	−	$3.9, 4.6 K^- p$
1425 ± 8.0	225	^{1,2} BARNHAM	71C HBC	+	$K^+ p \rightarrow K^0 \pi^+ p$
1416 ± 10	220	CRENNELL	69D DBC	−	$3.9 K^- N \rightarrow \bar{K}^0 \pi^- N$
1414 ± 13.0	60	¹ LIND	69 HBC	+	$9 K^+ p \rightarrow K^0 \pi^+ p$
1427 ± 12	63	¹ SCHWEING...	68 HBC	−	$5.5 K^- p \rightarrow \bar{K} \pi N$
1423 ± 11.0	39	¹ BASSANO	67 HBC	−	$4.6\text{--}5.0 K^- p \rightarrow \bar{K}^0 \pi^- p$

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

1428 ± 2	4300	⁴ ABLIKIM	22L BES3		$2.0\text{--}3.08 e^+ e^- \rightarrow K^+ K^- \pi^0$
1423.4 ± 2 ± 3	24809 ± 820	⁵ BIRD	89 LASS	−	$11 K^- p \rightarrow \bar{K}^0 \pi^- p$

¹ Errors enlarged by us to $\Gamma/\sqrt{N}$; see the note with the $K^*(892)$ mass.

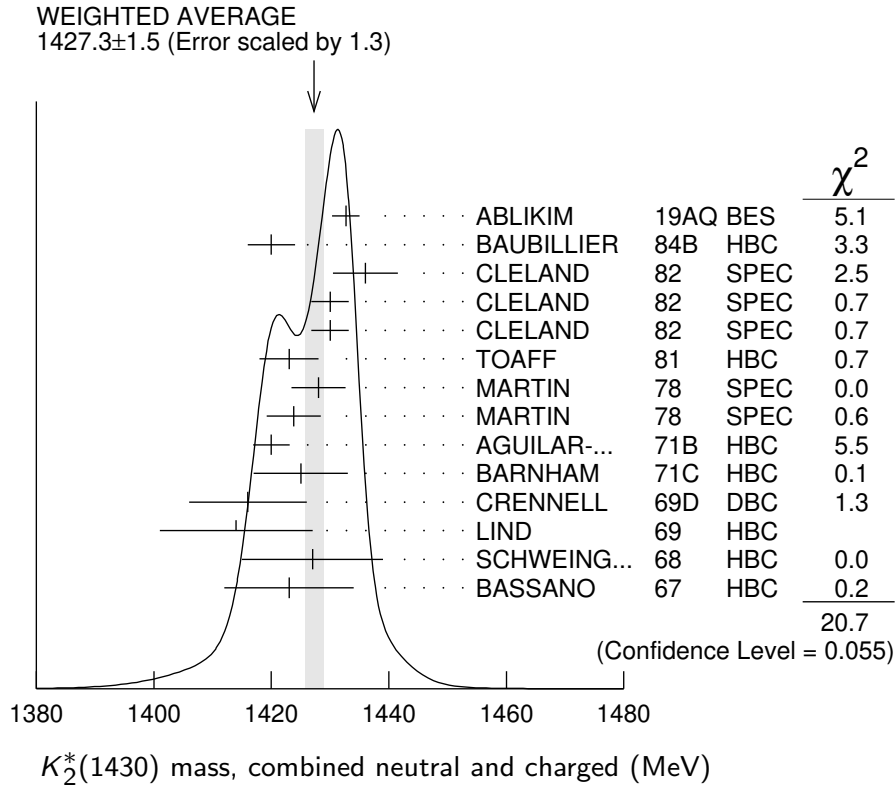
² Number of events in peak re-evaluated by us.

³ Systematic error added by us.

⁴ From a partial wave amplitude analysis at $\sqrt{s} = 2.125$ GeV which includes all the possible intermediate states that match J^{PC} conservation in the subsequent two-body decay.

The intermediate states are parameterized with the relativistic Breit-Wigner functions.
Statistical error only.

⁵ From a partial wave amplitude analysis.



NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
1432.4 ± 1.3 OUR AVERAGE				
1431.2 ± 1.8 ± 0.7		¹ ASTON 88 LASS	11	$K^- p \rightarrow K^- \pi^+ n$
1434 ± 4 ± 6		¹ ASTON 87 LASS	11	$K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
1433 ± 6 ± 10		¹ ASTON 84B LASS	11	$K^- p \rightarrow \bar{K}^0 2\pi n$
1471 ± 12		¹ BAUBILLIER 82B HBC	8.25	$K^- p \rightarrow N K_S^0 \pi \pi$
1428 ± 3		¹ ASTON 81C LASS	11	$K^- p \rightarrow K^- \pi^+ n$
1434 ± 2		¹ ESTABROOKS 78 ASPK	13	$K^\pm p \rightarrow p K \pi$
1440 ± 10		¹ BOWLER 77 DBC	5.5	$K^+ d \rightarrow K \pi p p$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1428.5 ± 3.9	1786 ± 127	² AUBERT 07AK BABR	10.6	$e^+ e^- \rightarrow K^{*0} K^\pm \pi^\mp \gamma$
1420 ± 7	300	HENDRICK 76 DBC	8.25	$K^+ N \rightarrow K^+ \pi N$
1421.6 ± 4.2	800	MCCUBBIN 75 HBC	3.6	$K^- p \rightarrow K^- \pi^+ n$
1420.1 ± 4.3		³ LINGLIN 73 HBC	2-13	$K^+ p \rightarrow K^+ \pi^- X$
1419.1 ± 3.7	1800	AGUILAR... 71B HBC	3.9, 4.6	$K^- p$
1416 ± 6	600	CORDS 71 DBC	9	$K^+ n \rightarrow K^+ \pi^- p$
1421.1 ± 2.6	2200	DAVIS 69 HBC	12	$K^+ p \rightarrow K^+ \pi^- X$

¹ From phase shift or partial-wave analysis.

² Systematic errors not estimated.

³ From pole extrapolation, using world $K^+ p$ data summary tape.

$K_2^*(1430)$ WIDTH**CHARGED ONLY, WITH FINAL STATE $K\pi$**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
100.0 ± 2.2 OUR FIT	Error includes scale factor of 1.1.				
100.0 ± 2.2 OUR AVERAGE	Error includes scale factor of 1.1.				
102.5 ± 1.6 ^{+3.1} _{-2.8}	183k	ABLIKIM	19AQ BES	±	$J/\psi \rightarrow K^+ K^- \pi^0$
109 ± 22	400	^{1,2} CLELAND	82 SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
124 ± 12.8	1500	^{1,2} CLELAND	82 SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
113 ± 12.8	1200	^{1,2} CLELAND	82 SPEC	-	50 $K^+ p \rightarrow K_S^0 \pi^- p$
85 ± 16	935	TOAFF	81 HBC	-	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
96.5 ± 3.8		MARTIN	78 SPEC	+	10 $K^\pm p \rightarrow K_S^0 \pi p$
97.7 ± 4.0		MARTIN	78 SPEC	-	10 $K^\pm p \rightarrow K_S^0 \pi p$
94.7 ^{+15.1} _{-12.5}	1400	AGUILAR-...	71B HBC	-	3.9,4.6 $K^- p$

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

107 ± 4	4300	³ ABLIKIM	22L BES3		2.0-3.08 $e^+ e^- \rightarrow K^+ K^- \pi^0$
98 ± 4 ± 4	25k	⁴ BIRD	89 LASS	-	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$

¹ Errors enlarged by us to $4\Gamma/\sqrt{N}$; see the note with the $K^*(892)$ mass.

² Number of events in peak re-evaluated by us.

³ From a partial wave amplitude analysis at $\sqrt{s} = 2.125$ GeV which includes all the possible intermediate states that match J^{PC} conservation in the subsequent two-body decay. The intermediate states are parameterized with the relativistic Breit-Wigner functions. Statistical error only.

⁴ From a partial wave amplitude analysis.

NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
109 ± 5 OUR AVERAGE	Error includes scale factor of 1.9. See the ideogram below.			
116.5 ± 3.6 ± 1.7		¹ ASTON	88 LASS	11 $K^- p \rightarrow K^- \pi^+ n$
129 ± 15 ± 15		¹ ASTON	87 LASS	11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
131 ± 24 ± 20		¹ ASTON	84B LASS	11 $K^- p \rightarrow \bar{K}^0 2\pi n$
143 ± 34		¹ BAUBILLIER	82B HBC	8.25 $K^- p \rightarrow N K_S^0 \pi \pi$
98 ± 8		¹ ASTON	81C LASS	11 $K^- p \rightarrow K^- \pi^+ n$
140 ± 30		¹ ETKIN	80 SPEC	6 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
98 ± 5		¹ ESTABROOKS	78 ASPK	13 $K^\pm p \rightarrow p K \pi$

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

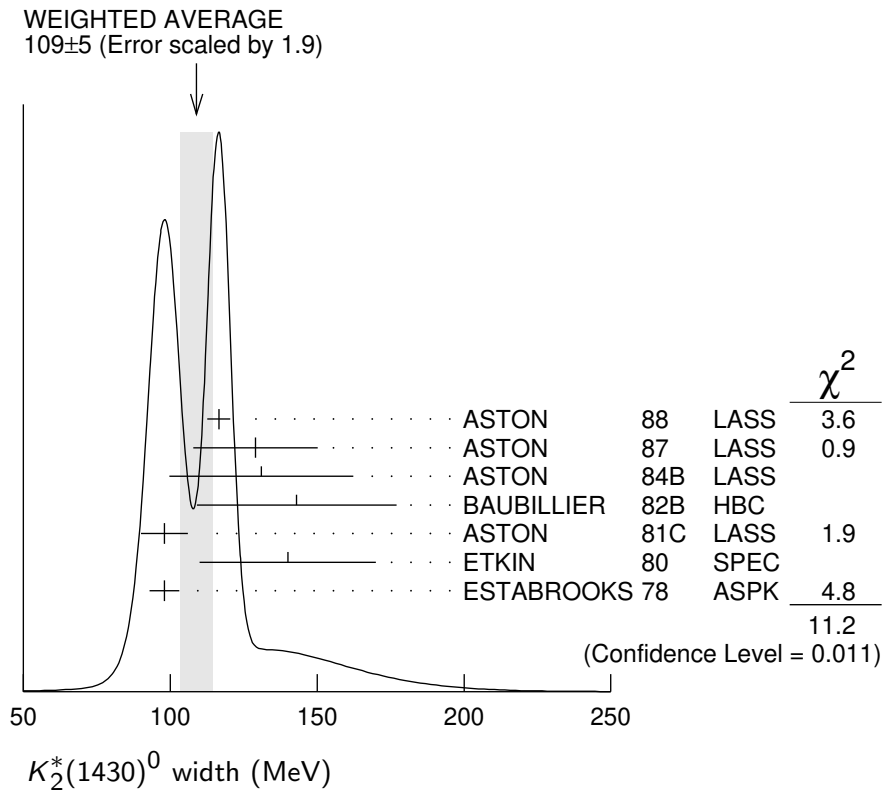
113.7 ± 9.2	1786 ± 127	² AUBERT	07AK BABR	10.6 $e^+ e^- \rightarrow K^{*0} K^\pm \pi^\mp \gamma$
125 ± 29	300	³ HENDRICK	76 DBC	8.25 $K^+ N \rightarrow K^+ \pi N$
116 ± 18	800	MCCUBBIN	75 HBC	3.6 $K^- p \rightarrow K^- \pi^+ n$
61 ± 14		⁴ LINGLIN	73 HBC	2-13 $K^+ p \rightarrow K^+ \pi^- X$
116.6 ^{+10.3} _{-15.5}	1800	AGUILAR-...	71B HBC	3.9,4.6 $K^- p$
144 ± 24.0	600	³ CORDS	71 DBC	9 $K^+ n \rightarrow K^+ \pi^- p$
101 ± 10	2200	DAVIS	69 HBC	12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$

¹ From phase shift or partial-wave analysis.

² Systematic errors not estimated.

³ Errors enlarged by us to $4\Gamma/\sqrt{N}$; see the note with the $K^*(892)$ mass.

⁴ From pole extrapolation, using world K^+p data summary tape.



$K_2^*(1430)$ DECAY MODES

Mode		Fraction (Γ_i/Γ)	Scale factor/ Confidence level
Γ_1	$K\pi$	$(49.9 \pm 1.2) \%$	
Γ_2	$K^*(892)\pi$	$(24.7 \pm 1.5) \%$	
Γ_3	$K^*(892)\pi\pi$	$(13.4 \pm 2.2) \%$	
Γ_4	$K\rho$	$(8.7 \pm 0.8) \%$	S=1.2
Γ_5	$K\omega$	$(2.9 \pm 0.8) \%$	
Γ_6	$K^+\gamma$	$(2.4 \pm 0.5) \times 10^{-3}$	S=1.1
Γ_7	$K\eta$	$(1.5^{+3.4}_{-1.0}) \times 10^{-3}$	S=1.3
Γ_8	$K\omega\pi$	$< 7.2 \times 10^{-4}$	CL=95%
Γ_9	$K^0\gamma$	$< 9 \times 10^{-4}$	CL=90%

CONSTRAINED FIT INFORMATION

An overall fit to the total width, a partial width, and 10 branching ratios uses 32 measurements and one constraint to determine 8 parameters. The overall fit has a $\chi^2 = 21.1$ for 25 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	−9						
x_3	−40	−73					
x_4	−8	36	−52				
x_5	−11	−3	−26	−7			
x_6	−1	−1	−1	−1	0		
x_7	−4	−7	−5	−5	−2	0	
Γ	0	0	0	0	0	−11	0
	x_1	x_2	x_3	x_4	x_5	x_6	x_7

	Mode	Rate (MeV)	Scale factor
Γ_1	$K \pi$	49.9 ± 1.6	
Γ_2	$K^*(892) \pi$	24.7 ± 1.6	
Γ_3	$K^*(892) \pi \pi$	13.5 ± 2.3	
Γ_4	$K \rho$	8.7 ± 0.8	1.2
Γ_5	$K \omega$	2.9 ± 0.8	
Γ_6	$K^+ \gamma$	0.24 ± 0.05	1.1
Γ_7	$K \eta$	$0.15^{+0.34}_{-0.10}$	1.3

$K_2^*(1430)$ PARTIAL WIDTHS

$\Gamma(K^+\gamma)$						Γ_6
<u>VALUE (keV)</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
240±50 OUR FIT	Error includes scale factor of 1.1.					
240±45		CIHANGIR	82	SPEC	+	200 $K^+Z \rightarrow ZK^+\pi^0$, $ZK_S^0\pi^+$

$\Gamma(K^0\gamma)$						Γ_9
<u>VALUE (keV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
< 5.4	90	ALAVI-HARATI02B	KTEV		$K + A \rightarrow K^* + A$	
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●						
<84	90	CARLSMITH	87	SPEC	0	60–200 $K_L^0A \rightarrow$ $K_S^0\pi^0A$

$K_2^*(1430)$ BRANCHING RATIOS **$\Gamma(K\pi)/\Gamma_{\text{total}}$ Γ_1/Γ**

<i>VALUE</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>CHG</i>	<i>COMMENT</i>
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0.499±0.012 OUR FIT**0.488±0.014 OUR AVERAGE**0.485±0.006±0.020 ¹ ASTON 88 LASS 0 11 $K^- p \rightarrow K^- \pi^+ n$ 0.49 ±0.02 ¹ ESTABROOKS 78 ASPK ± 13 $K^\pm p \rightarrow p K \pi$ ¹ From phase shift analysis. **$\Gamma(K^*(892)\pi)/\Gamma(K\pi)$ Γ_2/Γ_1**

<i>VALUE</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>CHG</i>	<i>COMMENT</i>
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0.496±0.034 OUR FIT**0.47 ±0.04 OUR AVERAGE**0.44 ±0.09 ASTON 84B LASS 0 11 $K^- p \rightarrow \bar{K}^0 2\pi n$ 0.62 ±0.19 LAUSCHER 75 HBC 0 10,16 $K^- p \rightarrow K^- \pi^+ n$ 0.54 ±0.16 DEHM 74 DBC 0 4.6 $K^+ N$ 0.47 ±0.08 AGUILAR-... 71B HBC 3.9,4.6 $K^- p$ 0.47 ±0.10 BASSANO 67 HBC -0 4.6,5.0 $K^- p$ 0.45 ±0.13 BADIER 65C HBC - 3 $K^- p$ **$\Gamma(K\omega)/\Gamma(K\pi)$ Γ_5/Γ_1**

<i>VALUE</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>CHG</i>	<i>COMMENT</i>
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0.059±0.017 OUR FIT**0.070±0.035 OUR AVERAGE**0.05 ±0.04 AGUILAR-... 71B HBC 3.9,4.6 $K^- p$ 0.13 ±0.07 BASSOMPIE... 69 HBC 0 5 $K^+ p$ **$\Gamma(K\rho)/\Gamma(K\pi)$ Γ_4/Γ_1**

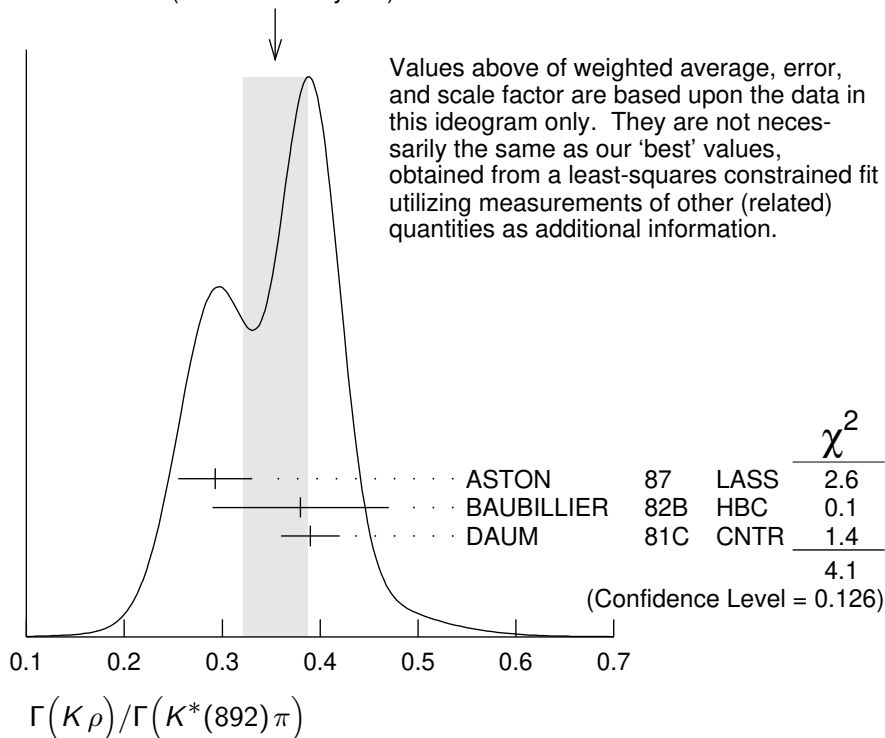
<i>VALUE</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>CHG</i>	<i>COMMENT</i>
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0.174±0.017 OUR FIT Error includes scale factor of 1.2.**0.150^{+0.029}_{-0.017} OUR AVERAGE**0.18 ±0.05 ASTON 84B LASS 0 11 $K^- p \rightarrow \bar{K}^0 2\pi n$ 0.02 ^{+0.10}_{-0.02} DEHM 74 DBC 0 4.6 $K^+ N$ 0.16 ±0.05 AGUILAR-... 71B HBC 3.9,4.6 $K^- p$ 0.14 ±0.10 BASSANO 67 HBC -0 4.6,5.0 $K^- p$ 0.14 ±0.07 BADIER 65C HBC - 3 $K^- p$ **$\Gamma(K\rho)/\Gamma(K^*(892)\pi)$ Γ_4/Γ_2**

<i>VALUE</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>CHG</i>	<i>COMMENT</i>
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0.350±0.031 OUR FIT Error includes scale factor of 1.4.**0.354±0.033 OUR AVERAGE** Error includes scale factor of 1.4. See the ideogram below.0.293±0.032±0.020 ASTON 87 LASS 0 11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$ 0.38 ±0.09 BAUBILLIER 82B HBC 0 8.25 $K^- p \rightarrow N K_S^0 \pi \pi$ 0.39 ±0.03 DAUM 81C CNTR 63 $K^- p \rightarrow K^- 2\pi p$

WEIGHTED AVERAGE
 0.354 ± 0.033 (Error scaled by 1.4)



$\Gamma(K\omega)/\Gamma(K^*(892)\pi)$

Γ_5/Γ_2

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
0.118 ± 0.034 OUR FIT				
0.10 ± 0.04	FIELD	67	HBC	— 3.8 $K^- p$

$\Gamma(K\eta)/\Gamma(K^*(892)\pi)$

Γ_7/Γ_2

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
$0.006^{+0.014}_{-0.004}$ OUR FIT	Error includes scale factor of 1.2.			
0.07 ± 0.04	FIELD	67	HBC	— 3.8 $K^- p$

$\Gamma(K\eta)/\Gamma(K\pi)$

Γ_7/Γ_1

VALUE	CL%	DOCUMENT ID	TECN	CHG	COMMENT
$0.0030^{+0.0070}_{-0.0020}$ OUR FIT					Error includes scale factor of 1.3.
0 ± 0.0056		¹ ASTON	88B	LASS	— 11 $K^- p \rightarrow K^- \eta p$

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

<0.04	95	AGUILAR-...	71B	HBC	3.9,4.6 $K^- p$
<0.065		² BASSOMPIE...	69	HBC	5.0 $K^+ p$
<0.02		BISHOP	69	HBC	3.5 $K^+ p$

¹ ASTON 88B quote < 0.0092 at CL=95%. We convert this to a central value and 1 sigma error in order to be able to use it in our constrained fit.

² Restated by us.

$\Gamma(K^*(892)\pi\pi)/\Gamma_{\text{total}}$ Γ_3/Γ

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
0.134±0.022 OUR FIT				
0.12 ±0.04	¹ GOLDBERG	76	HBC	— 3 $K^- p \rightarrow p \bar{K}^0 \pi \pi$

¹ Assuming $\pi\pi$ system has isospin 1, which is supported by the data. $\Gamma(K^*(892)\pi\pi)/\Gamma(K\pi)$ Γ_3/Γ_1

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
0.27±0.05 OUR FIT				
0.21±0.08	^{1,2} JONGEJANS	78	HBC	— 4 $K^- p \rightarrow p \bar{K}^0 \pi \pi \pi$

¹ Restated by us.² Assuming $\pi\pi$ system has isospin 1, which is supported by the data. $\Gamma(K\omega\pi)/\Gamma_{\text{total}}$ Γ_8/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<0.72	95	0	JONGEJANS	78	HBC 4 $K^- p \rightarrow p \bar{K}^0 4\pi$

 $K_2^*(1430)$ REFERENCES

ABLIKIM	22L	JHEP 2207 045	M. Ablikim <i>et al.</i>	(BESIII Collab.)
ABLIKIM	19AQ	PR D100 032004	M. Ablikim <i>et al.</i>	(BESIII Collab.)
PELAEZ	17	EPJ C77 91	J.R. Pelaez, A.Rodas, J.R. de Elvira	
AUBERT	07AK	PR D76 012008	B. Aubert <i>et al.</i>	(BABAR Collab.)
ALAVI-HARATI	02B	PRL 89 072001	A. Alavi-Harati <i>et al.</i>	(FNAL KTeV Collab.)
BIRD	89	SLAC-332	P.F. Bird	(SLAC)
ASTON	88	NP B296 493	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
ASTON	88B	PL B201 169	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
ASTON	87	NP B292 693	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
CARLSMITH	87	PR D36 3502	D. Carlsmith <i>et al.</i>	(EFI, SACL)
ASTON	84B	NP B247 261	D. Aston <i>et al.</i>	(SLAC, CARL, OTTA)
BAUBILLIER	84B	ZPHY C26 37	M. Baubillier <i>et al.</i>	(BIRM, CERN, GLAS+)
BAUBILLIER	82B	NP B202 21	M. Baubillier <i>et al.</i>	(BIRM, CERN, GLAS+)
CIHANGIR	82	PL 117B 123	S. Cihangir <i>et al.</i>	(FNAL, MINN, ROCH)
CLELAND	82	NP B208 189	W.E. Cleland <i>et al.</i>	(DURH, GEVA, LAUS+)
ASTON	81C	PL 106B 235	D. Aston <i>et al.</i>	(SLAC, CARL, OTTA) JP
DAUM	81C	NP B187 1	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+)
TOAFF	81	PR D23 1500	S. Toaff <i>et al.</i>	(ANL, KANS)
ETKIN	80	PR D22 42	A. Etkin <i>et al.</i>	(BNL, CUNY) JP
ESTABROOKS	78	NP B133 490	P.G. Estabrooks <i>et al.</i>	(MCGI, CARL, DURH+)
Also		PR D17 658	P.G. Estabrooks <i>et al.</i>	(MCGI, CARL, DURH+)
JONGEJANS	78	NP B139 383	B. Jongejans <i>et al.</i>	(ZEEM, CERN, NIJM+)
MARTIN	78	NP B134 392	A.D. Martin <i>et al.</i>	(DURH, GEVA)
BOWLER	77	NP B126 31	M.G. Bowler <i>et al.</i>	(OXF)
GOLDBERG	76	LNC 17 253	J. Goldberg	(HAIF)
HENDRICK	76	NP B112 189	K. Hendrickx <i>et al.</i>	(MONS, SACL, PARIS+)
LAUSCHER	75	NP B86 189	P. Lauscher <i>et al.</i>	(ABCLV Collab.) JP
MCCUBBIN	75	NP B86 13	N.A. McCubbin, L. Lyons	(OXF)
DEHM	74	NP B75 47	G. Dehm <i>et al.</i>	(MPIM, BRUX, MONS, CERN)
LINGLIN	73	NP B55 408	D. Linglin	(CERN)
AGUILAR-...	71B	PR D4 2583	M. Aguilar-Benitez, R.L. Eisner, J.B. Kinson	(BNL)
BARNHAM	71C	NP B28 171	K.W.J. Barnham <i>et al.</i>	(BIRM, GLAS)
CORDS	71	PR D4 1974	D. Cords <i>et al.</i>	(PURD, UCD, IUPU)
BASSOMPIERRE...	69	NP B13 189	G. Bassompierre <i>et al.</i>	(CERN, BRUX) JP
BISHOP	69	NP B9 403	J.M. Bishop <i>et al.</i>	(WISC)
CRENNELL	69D	PRL 22 487	D.J. Crennell <i>et al.</i>	(BNL)
DAVIS	69	PRL 23 1071	P.J. Davis <i>et al.</i>	(LRL)
LIND	69	NP B14 1	V.G. Lind <i>et al.</i>	(LRL) JP
SCHWEINGRUBER...	68	PR 166 1317	F. Schweingruber <i>et al.</i>	(ANL, NWES)
Also		Thesis	F.L. Schweingruber	(NWES, NWES)
BASSANO	67	PRL 19 968	D. Bassano <i>et al.</i>	(BNL, SYRA)
FIELD	67	PL 24B 638	J.H. Field <i>et al.</i>	(UCSD)
BADIER	65C	PL 19 612	J. Badier <i>et al.</i>	(EPOL, SACL, AMST)