

# **$K_2^*(1430)$**

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

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

## **$K_2^*(1430)$ MASS**

### **CHARGED ONLY, WITH FINAL STATE $K\pi$**

<b>VALUE (MeV)</b>	<b>EVTS</b>	<b>DOCUMENT ID</b>		<b>TECN</b>	<b>CHG</b>	<b>COMMENT</b>
<b><math>1425.6 \pm 1.5</math> OUR AVERAGE</b>					Error includes scale factor of 1.1.	
1420 $\pm$ 4	1587	BAUBILLIER	84B	HBC	—	8.25 $K^- p \rightarrow \bar{K}^0 \pi^- p$
1436 $\pm$ 5.5	400	1,2 CLELAND	82	SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
1430 $\pm$ 3.2	1500	1,2 CLELAND	82	SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
1430 $\pm$ 3.2	1200	1,2 CLELAND	82	SPEC	—	50 $K^+ p \rightarrow K_S^0 \pi^- p$
1423 $\pm$ 5	935	TOAFF	81	HBC	—	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
		3 MARTIN	78	SPEC	+	10 $K^\pm p \rightarrow K_S^0 \pi p$
		3 MARTIN	78	SPEC	—	10 $K^\pm p \rightarrow K_S^0 \pi p$
1420.0 $\pm$ 3.1	1400	AGUILAR...	71B	HBC	—	3.9, 4.6 $K^- p$
1425 $\pm$ 8.0	225	1,2 BARNHAM	71C	HBC	+	$K^+ p \rightarrow K^0 \pi^+ p$
1416 $\pm$ 10	220	CRENNELL	69D	DBC	—	3.9 $\bar{K}^- N \rightarrow \bar{K}^0 \pi^- N$
1414 $\pm$ 13.0	60	1 LIND	69	HBC	+	9 $K^+ p \rightarrow K^0 \pi^+ p$
1427 $\pm$ 12	63	1 SCHWEING...	68	HBC	—	5.5 $K^- p \rightarrow \bar{K}\pi N$
1423 $\pm$ 11.0	39	1 BASSANO	67	HBC	—	4.6–5.0 $K^- p \rightarrow \bar{K}^0 \pi^- p$

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

1423.4 $\pm$ 2	$\pm$ 3	24809 $\pm$ 820	<sup>4</sup> BIRD	89	LASS	—	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
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### **NEUTRAL ONLY**

<b>VALUE (MeV)</b>	<b>EVTS</b>	<b>DOCUMENT ID</b>		<b>TECN</b>	<b>CHG</b>	<b>COMMENT</b>
<b><math>1432.4 \pm 1.3</math> OUR AVERAGE</b>						
1431.2 $\pm$ 1.8 $\pm$ 0.7		5 ASTON	88	LASS	0	11 $K^- p \rightarrow K^- \pi^+ n$
1434 $\pm$ 4 $\pm$ 6		5 ASTON	87	LASS	0	11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
1433 $\pm$ 6 $\pm$ 10		5 ASTON	84B	LASS	0	11 $K^- p \rightarrow \bar{K}^0 2\pi n$
1471 $\pm$ 12		5 BAUBILLIER	82B	HBC	0	8.25 $K^- p \rightarrow NK_S^0 \pi\pi$
1428 $\pm$ 3		5 ASTON	81C	LASS	0	11 $K^- p \rightarrow K^- \pi^+ n$
1434 $\pm$ 2		5 ESTABROOKS	78	ASPK	0	13 $K^\pm p \rightarrow p K\pi$
1440 $\pm$ 10		5 BOWLER	77	DBC	0	5.5 $K^+ d \rightarrow K\pi pp$

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

1420	$\pm$ 7	300	HENDRICK	76	DBC	8.25	$K^+ N \rightarrow K^+ \pi N$
1421.6	$\pm$ 4.2	800	MCCUBBIN	75	HBC	0	3.6 $K^- p \rightarrow K^- \pi^+ n$
1420.1	$\pm$ 4.3		<sup>6</sup> LINGLIN	73	HBC	0	2-13 $K^+ p \rightarrow K^+ \pi^- X$
1419.1	$\pm$ 3.7	1800	AGUILAR...	71B	HBC	0	3.9, 4.6 $K^- p$
1416	$\pm$ 6	600	CORDS	71	DBC	0	9 $K^+ n \rightarrow K^+ \pi^- p$
1421.1	$\pm$ 2.6	2200	DAVIS	69	HBC	0	12 $K^+ p \rightarrow K^+ \pi^- X$

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

<sup>2</sup> Number of events in peak re-evaluated by us.

<sup>3</sup> Systematic error added by us.

<sup>4</sup> From a partial wave amplitude analysis.

<sup>5</sup> From phase shift or partial-wave analysis.

<sup>6</sup> 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
<b>98.5 <math>\pm</math> 2.7 OUR FIT</b>	Error includes scale factor of 1.1.				
<b>98.5 <math>\pm</math> 2.9 OUR AVERAGE</b>	Error includes scale factor of 1.1.				
109 $\pm$ 22	400	7,8 CLELAND	82	SPEC +	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
124 $\pm$ 12.8	1500	7,8 CLELAND	82	SPEC +	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
113 $\pm$ 12.8	1200	7,8 CLELAND	82	SPEC -	50 $K^+ p \rightarrow K_S^0 \pi^- p$
85 $\pm$ 16	935	TOAFF	81	HBC -	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
96.5 $\pm$ 3.8		MARTIN	78	SPEC +	10 $K^\pm p \rightarrow K_S^0 \pi p$
97.7 $\pm$ 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. • • •

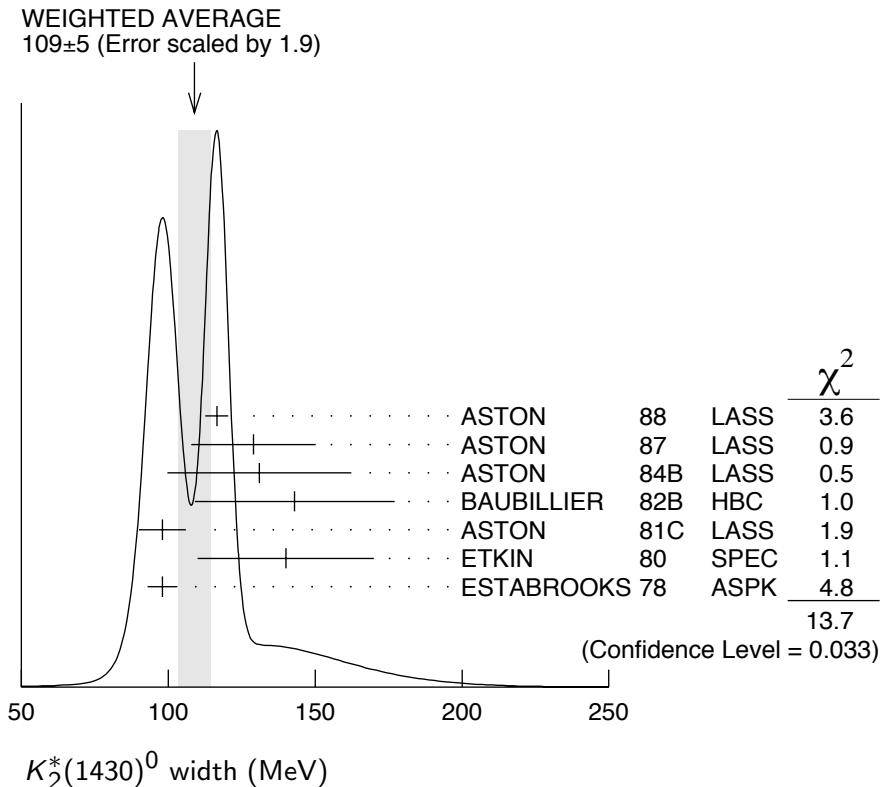
98 $\pm$ 4 $\pm$ 4	24809 $\pm$ 820	<sup>9</sup> BIRD	89	LASS -	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
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#### NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>109 <math>\pm</math> 5 OUR AVERAGE</b>	Error includes scale factor of 1.9. See the ideogram below.				
116.5 $\pm$ 3.6 $\pm$ 1.7		10 ASTON	88	LASS 0	11 $K^- p \rightarrow K^- \pi^+ n$
129 $\pm$ 15 $\pm$ 15		10 ASTON	87	LASS 0	11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
131 $\pm$ 24 $\pm$ 20		10 ASTON	84B	LASS 0	11 $K^- p \rightarrow \bar{K}^0 2\pi n$
143 $\pm$ 34		10 BAUBILLIER	82B	HBC 0	8.25 $K^- p \rightarrow N K_S^0 \pi \pi$
98 $\pm$ 8		10 ASTON	81C	LASS 0	11 $K^- p \rightarrow K^- \pi^+ n$
140 $\pm$ 30		10 ETKIN	80	SPEC 0	6 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
98 $\pm$ 5		10 ESTABROOKS	78	ASPK 0	13 $K^\pm p \rightarrow p K\pi$

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

125	$\pm 29$	300	<sup>7</sup> HENDRICK	76	DBC	8.25	$K^+ N \rightarrow K^+ \pi N$
116	$\pm 18$	800	MCCUBBIN	75	HBC	0	$3.6 K^- p \rightarrow K^- \pi^+ n$
61	$\pm 14$		<sup>11</sup> LINGLIN	73	HBC	0	2-13 $K^+ p \rightarrow K^+ \pi^- X$
116.6	$^{+10.3}_{-15.5}$	1800	AGUILAR...	71B	HBC	0	3.9, 4.6 $K^- p$
144	$\pm 24.0$	600	<sup>7</sup> CORDS	71	DBC	0	9 $K^+ n \rightarrow K^+ \pi^- p$
101	$\pm 10$	2200	DAVIS	69	HBC	0	12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$



<sup>7</sup> Errors enlarged by us to  $4\Gamma/\sqrt{N}$ ; see the note with the  $K^*(892)$  mass.

<sup>8</sup> Number of events in peak re-evaluated by us.

<sup>9</sup> From a partial wave amplitude analysis.

<sup>10</sup> From phase shift or partial-wave analysis.

<sup>11</sup> From pole extrapolation, using world  $K^+ p$  data summary tape.

### $K_2^*(1430)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )	Scale factor/ Confidence level
$\Gamma_1 K\pi$	(49.9±1.2) %	
$\Gamma_2 K^*(892)\pi$	(24.7±1.5) %	
$\Gamma_3 K^*(892)\pi\pi$	(13.4±2.2) %	
$\Gamma_4 K\rho$	( 8.7±0.8) %	S=1.2

$\Gamma_5$	$K\omega$	$(2.9 \pm 0.8)\%$	
$\Gamma_6$	$K^+\gamma$	$(2.4 \pm 0.5) \times 10^{-3}$	$S=1.1$
$\Gamma_7$	$K\eta$	$(1.5^{+3.4}_{-1.0}) \times 10^{-3}$	$S=1.3$
$\Gamma_8$	$K\omega\pi$	$< 7.2 \times 10^{-4}$	$CL=95\%$
$\Gamma_9$	$K^0\gamma$	$< 9 \times 10^{-4}$	$CL=90\%$

## CONSTRAINED FIT INFORMATION

An overall fit to the total width, a partial width, and 10 branching ratios uses 31 measurements and one constraint to determine 8 parameters. The overall fit has a  $\chi^2 = 20.2$  for 24 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
$\Gamma$	0	0	0	0	0	-13 0
	$x_1$	$x_2$	$x_3$	$x_4$	$x_5$	$x_6$
						$x_7$

	Mode	Rate (MeV)	Scale factor
$\Gamma_1$	$K\pi$	$49.1 \pm 1.8$	
$\Gamma_2$	$K^*(892)\pi$	$24.3 \pm 1.6$	
$\Gamma_3$	$K^*(892)\pi\pi$	$13.2 \pm 2.2$	
$\Gamma_4$	$K\rho$	$8.5 \pm 0.8$	1.2
$\Gamma_5$	$K\omega$	$2.9 \pm 0.8$	
$\Gamma_6$	$K^+\gamma$	$0.24 \pm 0.05$	1.1
$\Gamma_7$	$K\eta$	$0.15^{+0.33}_{-0.10}$	1.3

## $K_2^*(1430)$ PARTIAL WIDTHS

$\Gamma(K^+\gamma)$		$\Gamma_6$
<u>VALUE (keV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u> <u>CHG</u> <u>COMMENT</u>
<b><math>241 \pm 50</math> OUR FIT</b>	Error includes scale factor of 1.1.	
<b><math>240 \pm 45</math></b>	CIHANGIR    82    SPEC	+    200 $K^+Z \rightarrow ZK^+\pi^0,$ $ZK_S^0\pi^+$

$\Gamma(K^0\gamma)$						$\Gamma_9$
<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		$K + A \rightarrow K^* + A$	
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$						
<84	90	CARLSMITH	87	SPEC	0	60–200 $K_L^0 A \rightarrow K_S^0 \pi^0 A$

## $K_2^*(1430)$ BRANCHING RATIOS

$\Gamma(K\pi)/\Gamma_{\text{total}}$						$\Gamma_1/\Gamma$
<u>VALUE</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
<b>0.499 ± 0.012 OUR FIT</b>						
<b>0.488 ± 0.014 OUR AVERAGE</b>						
0.485 ± 0.006 ± 0.020	12 ASTON	88	LASS	0	11	$K^- p \rightarrow K^- \pi^+ n$
0.49 ± 0.02	12 ESTABROOKS	78	ASPK	±	13	$K^\pm p \rightarrow p K\pi$

$\Gamma(K^*(892)\pi)/\Gamma(K\pi)$						$\Gamma_2/\Gamma_1$
<u>VALUE</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
<b>0.496 ± 0.034 OUR FIT</b>						
<b>0.47 ± 0.04 OUR AVERAGE</b>						
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	$K^- p$

$\Gamma(K\omega)/\Gamma(K\pi)$						$\Gamma_5/\Gamma_1$
<u>VALUE</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
<b>0.059 ± 0.017 OUR FIT</b>						
<b>0.070 ± 0.035 OUR AVERAGE</b>						
0.05 ± 0.04	AGUILAR-...	71B	HBC		3.9,4.6	$K^- p$
0.13 ± 0.07	BASSOMPIE...	69	HBC	0	5	$K^+ p$

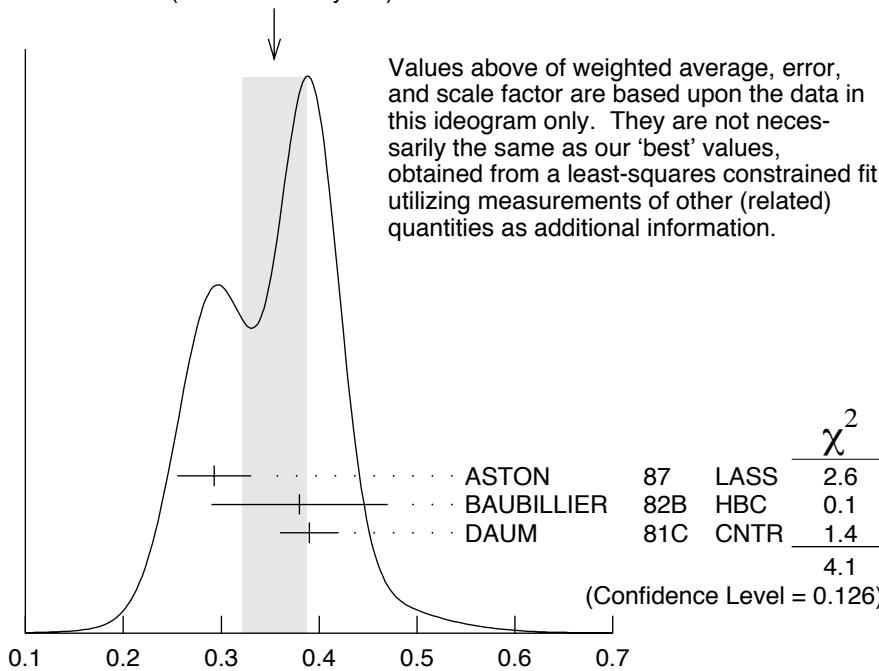
$\Gamma(K\rho)/\Gamma(K\pi)$						$\Gamma_4/\Gamma_1$
<u>VALUE</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>	
<b>0.174 ± 0.017 OUR FIT</b>						
Error includes scale factor of 1.2.						
<b>0.150 ± 0.029 OUR AVERAGE</b>						
0.18 ± 0.05	ASTON	84B	LASS	0	11	$K^- p \rightarrow \bar{K}^0 2\pi n$
0.02 ± 0.10	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	$K^- p$

## $\Gamma(K\rho)/\Gamma(K^*(892)\pi)$

$\Gamma_4/\Gamma_2$

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
<b>0.350 ± 0.031 OUR FIT</b>	Error includes scale factor of 1.4.			
<b>0.354 ± 0.033 OUR AVERAGE</b>	Error includes scale factor of 1.4. See the ideogram below.			
0.293 ± 0.032 ± 0.020	ASTON 87 LASS 0	11 $K^- p \rightarrow K^0 \pi^+ \pi^- n$		
0.38 ± 0.09	BAUBILLIER 82B HBC 0	8.25 $K^- p \rightarrow NK_S^0 \pi\pi$		
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)



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

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

$\Gamma_5/\Gamma_2$

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
<b>0.118 ± 0.034 OUR FIT</b>				
<b>0.10 ± 0.04</b>	FIELD 67 HBC –	3.8 $K^- p$		

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

$\Gamma_7/\Gamma_2$

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
<b>0.006 ± 0.014 OUR FIT</b>	Error includes scale factor of 1.2.			
<b>0.07 ± 0.04</b>	FIELD 67 HBC –	3.8 $K^- p$		

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

$\Gamma_7/\Gamma_1$

VALUE	CL%	DOCUMENT ID	TECN	CHG	COMMENT
<b>0.0030 ± 0.0068 OUR FIT</b>	13%	Error includes scale factor of 1.3.			
<b>0 ± 0.0056</b>	13 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	14	BASSOMPIE...	69	HBC	5.0	$K^+ p$
<0.02		BISHOP	69	HBC	3.5	$K^+ p$

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

VALUE	DOCUMENT ID	TECN	CHG	COMMENT	$\Gamma_3/\Gamma$
<b>0.134±0.022 OUR FIT</b>					
<b>0.12 ±0.04</b>	15 GOLDBERG	76	HBC	–	$3 K^- p \rightarrow p \bar{K}^0 \pi\pi\pi$

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

VALUE	DOCUMENT ID	TECN	CHG	COMMENT	$\Gamma_3/\Gamma_1$
<b>0.27±0.05 OUR FIT</b>					
<b>0.21±0.08</b>	14,15 JONGEJANS	78	HBC	–	$4 K^- p \rightarrow p \bar{K}^0 \pi\pi\pi$

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

VALUE (units $10^{-3}$ )	CL%	EVTS	DOCUMENT ID	TECN	COMMENT	$\Gamma_8/\Gamma$
<b>&lt;0.72</b>	95	0	JONGEJANS	78	HBC	$4 K^- p \rightarrow p \bar{K}^0 4\pi$

12 From phase shift analysis.

13 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.

14 Restated by us.

15 Assuming  $\pi\pi$  system has isospin 1, which is supported by the data.

## **$K_2^*(1430)$ REFERENCES**

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>	(IFI, 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. Kinso	(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
SCHWEING... Also	68	PR 166 1317 Thesis	F. Schweingruber <i>et al.</i> F.L. Schweingruber	(ANL, NWES) (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)

## OTHER RELATED PAPERS

ABLIKIM	05Q	PR D72 092002	M. Ablikim <i>et al.</i>	(BES Collab.)
AUBERT,B	04O	PR D70 091103R	B. Aubert <i>et al.</i>	(BABAR Collab.)
AUBERT,B	04P	PR D70 092001	B. Aubert <i>et al.</i>	(BABAR Collab.)
VANBEVEREN	01B	EPJ C22 493	E. van Beveren	
BARBERIS	98E	PL B436 204	D. Barberis <i>et al.</i>	(Omega Expt.)
ATKINSON	86	ZPHY C30 521	M. Atkinson <i>et al.</i>	(BONN, CERN, GLAS+)
BAUBILLIER	82B	NP B202 21	M. Baubillier <i>et al.</i>	(BIRM, CERN, GLAS+)
CHUNG	65	PRL 15 325	S.U. Chung <i>et al.</i>	(LRL)
FOCARDI	65	PL 16 351	S. Focardi <i>et al.</i>	(BGNA, SACL)
HAQUE	65	PL 14 338	N. Haque <i>et al.</i>	
HARDY	65	PRL 14 401	L.M. Hardy <i>et al.</i>	(LRL)