

**$K^*(892)$** 

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

 **$K^*(892)$  MASS****CHARGED ONLY, HADROPRODUCED**

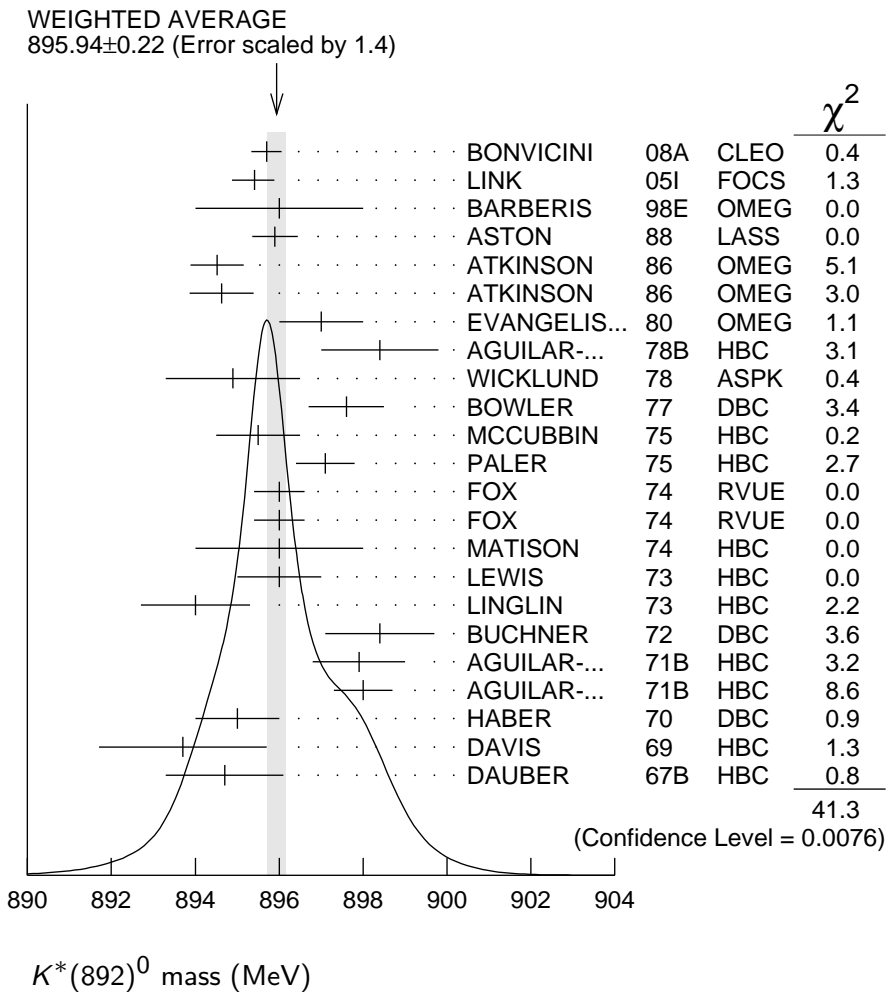
VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>891.66 ± 0.26 OUR AVERAGE</b>					
892.6 ± 0.5	5840	BAUBILLIER 84B	HBC	-	8.25 $K^- p \rightarrow \bar{K}^0 \pi^- p$
888 ± 3		NAPIER 84	SPEC	+	200 $\pi^- p \rightarrow 2K_S^0 X$
891 ± 1		NAPIER 84	SPEC	-	200 $\pi^- p \rightarrow 2K_S^0 X$
891.7 ± 2.1	3700	BARTH 83	HBC	+	70 $K^+ p \rightarrow K^0 \pi^+ X$
891 ± 1	4100	TOAFF 81	HBC	-	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
892.8 ± 1.6		AJINENKO 80	HBC	+	32 $K^+ p \rightarrow K^0 \pi^+ X$
890.7 ± 0.9	1800	AGUILAR-... 78B	HBC	±	0.76 $\bar{p} p \rightarrow K^\mp K_S^0 \pi^\pm$
886.6 ± 2.4	1225	BALAND 78	HBC	±	12 $\bar{p} p \rightarrow (K\pi)^\pm X$
891.7 ± 0.6	6706	COOPER 78	HBC	±	0.76 $\bar{p} p \rightarrow (K\pi)^\pm X$
891.9 ± 0.7	9000	<sup>1</sup> PALER 75	HBC	-	14.3 $K^- p \rightarrow (K\pi)^-$ X
892.2 ± 1.5	4404	AGUILAR-... 71B	HBC	-	3.9,4.6 $K^- p \rightarrow$ $(K\pi)^- p$
891 ± 2	1000	CRENNELL 69D	DBC	-	3.9 $K^- N \rightarrow K^0 \pi^- X$
890 ± 3.0	720	BARLOW 67	HBC	±	1.2 $\bar{p} p \rightarrow (K^0 \pi)^\pm K^\mp$
889 ± 3.0	600	BARLOW 67	HBC	±	1.2 $\bar{p} p \rightarrow (K^0 \pi)^\pm K\pi$
891 ± 2.3	620	<sup>2</sup> DEBAERE 67B	HBC	+	3.5 $K^+ p \rightarrow K^0 \pi^+ p$
891.0 ± 1.2	1700	<sup>3</sup> WOJCICKI 64	HBC	-	1.7 $K^- p \rightarrow \bar{K}^0 \pi^- p$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
893.5 ± 1.1	27k	<sup>4</sup> ABELE 99D	CBAR	±	0.0 $\bar{p} p \rightarrow K^+ K^- \pi^0$
890.4 ± 0.2 ± 0.5	80 ± 0.8k	<sup>5</sup> BIRD 89	LASS	-	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
890.0 ± 2.3	800	<sup>2,3</sup> CLELAND 82	SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
896.0 ± 1.1	3200	<sup>2,3</sup> CLELAND 82	SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
893 ± 1	3600	<sup>2,3</sup> CLELAND 82	SPEC	-	50 $K^+ p \rightarrow K_S^0 \pi^- p$
896.0 ± 1.9	380	DELFOSE 81	SPEC	+	50 $K^\pm p \rightarrow K^\pm \pi^0 p$
886.0 ± 2.3	187	DELFOSE 81	SPEC	-	50 $K^\pm p \rightarrow K^\pm \pi^0 p$
894.2 ± 2.0	765	<sup>2</sup> CLARK 73	HBC	-	3.13 $K^- p \rightarrow \bar{K}^0 \pi^- p$
894.3 ± 1.5	1150	<sup>2,3</sup> CLARK 73	HBC	-	3.3 $K^- p \rightarrow \bar{K}^0 \pi^- p$
892.0 ± 2.6	341	<sup>2</sup> SCHWEING...68	HBC	-	5.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$

**CHARGED ONLY, PRODUCED IN  $\tau$  LEPTON DECAYS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>895.47 ± 0.20 ± 0.74</b>	53k	<sup>6</sup> EPIFANOV 07	BELL	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
892.0 ± 0.5		<sup>7</sup> BOITO 10	RVUE	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
892.0 ± 0.9		<sup>8,9</sup> BOITO 09	RVUE	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
895.3 ± 0.2		<sup>8,10</sup> JAMIN 08	RVUE	$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
896.4 ± 0.9	11970	<sup>11</sup> BONVICINI 02	CLEO	$\tau^- \rightarrow K^- \pi^0 \nu_\tau$
895 ± 2		<sup>12</sup> BARATE 99R	ALEP	$\tau^- \rightarrow K^- \pi^0 \nu_\tau$

**NEUTRAL ONLY**

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>895.94 ± 0.22 OUR AVERAGE</b>				Error includes scale factor of 1.4. See the ideogram below.
895.7 ± 0.2 ± 0.3	141k	<sup>13</sup> BONVICINI	08A CLEO	$D^+ \rightarrow K^- \pi^+ \pi^+$
895.41 ± 0.32 <sup>+0.35</sup> <sub>-0.43</sub>	18k	<sup>14</sup> LINK	05I FOCS	$D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$
896 ± 2		BARBERIS	98E OMEG	450 $p\bar{p} \rightarrow p_f p_s K^* \bar{K}^*$
895.9 ± 0.5 ± 0.2		ASTON	88 LASS	11 $K^- p \rightarrow K^- \pi^+ n$
894.52 ± 0.63	25k	<sup>1</sup> ATKINSON	86 OMEG	20-70 $\gamma p$
894.63 ± 0.76	20k	<sup>1</sup> ATKINSON	86 OMEG	20-70 $\gamma p$
897 ± 1	28k	EVANGELIS...	80 OMEG	10 $\pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$
898.4 ± 1.4	1180	AGUILAR-...	78B HBC	0.76 $\bar{p}p \rightarrow K^\mp K_S^0 \pi^\pm$
894.9 ± 1.6		WICKLUND	78 ASPK	3,4,6 $K^\pm N \rightarrow (K\pi)^0 N$
897.6 ± 0.9		BOWLER	77 DBC	5.4 $K^+ d \rightarrow K^+ \pi^- p p$
895.5 ± 1.0	3600	MCCUBBIN	75 HBC	3.6 $K^- p \rightarrow K^- \pi^+ n$
897.1 ± 0.7	22k	<sup>1</sup> PALER	75 HBC	14.3 $K^- p \rightarrow (K\pi)^0 X$
896.0 ± 0.6	10k	FOX	74 RVUE	2 $K^- p \rightarrow K^- \pi^+ n$
896.0 ± 0.6		FOX	74 RVUE	2 $K^+ n \rightarrow K^+ \pi^- p$
896 ± 2		<sup>15</sup> MATISON	74 HBC	12 $K^+ p \rightarrow K^+ \pi^- \Delta$
896 ± 1	3186	LEWIS	73 HBC	2.1-2.7 $K^+ p \rightarrow K \pi \pi p$
894.0 ± 1.3		<sup>15</sup> LINGLIN	73 HBC	2-13 $K^+ p \rightarrow$ $K^+ \pi^- \pi^+ p$
898.4 ± 1.3	1700	<sup>2</sup> BUCHNER	72 DBC	4.6 $K^+ n \rightarrow K^+ \pi^- p$
897.9 ± 1.1	2934	<sup>2</sup> AGUILAR-...	71B HBC	3.9,4.6 $K^- p \rightarrow K^- \pi^+ n$
898.0 ± 0.7	5362	<sup>2</sup> AGUILAR-...	71B HBC	3.9,4.6 $K^- p \rightarrow$ $K^- \pi^+ \pi^- p$
895 ± 1	4300	<sup>3</sup> HABER	70 DBC	3 $K^- N \rightarrow K^- \pi^+ X$
893.7 ± 2.0	10k	DAVIS	69 HBC	12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$
894.7 ± 1.4	1040	<sup>2</sup> DAUBER	67B HBC	2.0 $K^- p \rightarrow K^- \pi^+ \pi^- p$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
894.9 ± 0.5 ± 0.7	14.4k	<sup>16</sup> MITCHELL	09A CLEO	$D_s^+ \rightarrow K^+ K^- \pi^+$
896.2 ± 0.3	20k	<sup>8</sup> AUBERT	07AK BABR	10.6 $e^+ e^- \rightarrow$ $K^{*0} K^\pm \pi^\mp \gamma$
900.7 ± 1.1	5900	BARTH	83 HBC	70 $K^+ p \rightarrow K^+ \pi^- X$



- $K^*(892)^0$  mass (MeV)
- 1 Inclusive reaction. Complicated background and phase-space effects.
  - 2 Mass errors enlarged by us to  $\Gamma/\sqrt{N}$ . See note.
  - 3 Number of events in peak reevaluated by us.
  - 4 K-matrix pole.
  - 5 From a partial wave amplitude analysis.
  - 6 From a fit in the  $K_0^*(800) + K^*(892) + K^*(1410)$  model.
  - 7 From the pole position of the  $K\pi$  vector form factor using EPIFANOV 07 and constraints from  $K_{J3}$  decays in ANTONELLI 10.
  - 8 Systematic uncertainties not estimated.
  - 9 From the pole position of the  $K\pi$  vector form factor in the complex  $s$ -plane and using EPIFANOV 07 data.
  - 10 Reanalysis of EPIFANOV 07 using resonance chiral theory.
  - 11 Calculated by us from the shift by  $4.7 \pm 0.9$  MeV (statistical uncertainty only) reported in BONVICINI 02 with respect to the world average value from PDG 00.
  - 12 With mass and width of the  $K^*(1410)$  fixed at 1412 MeV and 227 MeV, respectively.
  - 13 From the isobar model with a complex pole for the  $\kappa$ .
  - 14 Fit to  $K\pi$  mass spectrum includes a non-resonant scalar component.
  - 15 From pole extrapolation.
  - 16 This value comes from a fit with  $\chi^2$  of 178/117.

---

A REVIEW GOES HERE – Check our WWW List of Reviews

---

$m_{K^*(892)^0} - m_{K^*(892)^\pm}$

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>6.7±1.2 OUR AVERAGE</b>					
7.7±1.7	2980	AGUILAR-...	78B HBC	±0	0.76 $\bar{p}p \rightarrow K^\mp K_S^0 \pi^\pm$
5.7±1.7	7338	AGUILAR-...	71B HBC	-0	3.9,4.6 $K^- p$
6.3±4.1	283	<sup>17</sup> BARASH	67B HBC		0.0 $\bar{p}p$

<sup>17</sup> Number of events in peak reevaluated by us.

**$K^*(892)$  RANGE PARAMETER**

All from partial wave amplitude analyses.

VALUE (GeV <sup>-1</sup> )	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
3.96±0.54 <sup>+1.31</sup> / <sub>-0.90</sub>	18k	<sup>18</sup> LINK	05I FOCS	0	$D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$
3.4 ±0.7		ASTON	88 LASS	0	11 $K^- p \rightarrow K^- \pi^+ n$
• • •					We do not use the following data for averages, fits, limits, etc. • • •
12.1 ±3.2 ±3.0		BIRD	89 LASS	-	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$

<sup>18</sup> Fit to  $K\pi$  mass spectrum includes a non-resonant scalar component.

**$K^*(892)$  WIDTH**

**CHARGED ONLY, HADROPRODUCED**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>50.8±0.9 OUR FIT</b>					
<b>50.8±0.9 OUR AVERAGE</b>					
49 ±2	5840	BAUBILLIER	84B HBC	-	8.25 $K^- p \rightarrow \bar{K}^0 \pi^- p$
56 ±4		NAPIER	84 SPEC	-	200 $\pi^- p \rightarrow 2K_S^0 X$
51 ±2	4100	TOAFF	81 HBC	-	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
50.5±5.6		AJINENKO	80 HBC	+	32 $K^+ p \rightarrow K^0 \pi^+ X$
45.8±3.6	1800	AGUILAR-...	78B HBC	±	0.76 $\bar{p}p \rightarrow K^\mp K_S^0 \pi^\pm$
52.0±2.5	6706	<sup>19</sup> COOPER	78 HBC	±	0.76 $\bar{p}p \rightarrow (K\pi)^\pm X$
52.1±2.2	9000	<sup>20</sup> PALER	75 HBC	-	14.3 $K^- p \rightarrow (K\pi)^- X$
46.3±6.7	765	<sup>19</sup> CLARK	73 HBC	-	3.13 $K^- p \rightarrow \bar{K}^0 \pi^- p$
48.2±5.7	1150	<sup>19,21</sup> CLARK	73 HBC	-	3.3 $K^- p \rightarrow \bar{K}^0 \pi^- p$
54.3±3.3	4404	<sup>19</sup> AGUILAR-...	71B HBC	-	3.9,4.6 $K^- p \rightarrow (K\pi)^- p$
46 ±5	1700	<sup>19,21</sup> WOJCICKI	64 HBC	-	1.7 $K^- p \rightarrow \bar{K}^0 \pi^- p$
• • •					We do not use the following data for averages, fits, limits, etc. • • •
54.8±1.7	27k	<sup>22</sup> ABELE	99D CBAR	±	0.0 $\bar{p}p \rightarrow K^+ K^- \pi^0$
45.2±1 ±2	79.7±0.8k	<sup>23</sup> BIRD	89 LASS	-	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
42.8±7.1	3700	BARTH	83 HBC	+	70 $K^+ p \rightarrow K^0 \pi^+ X$
64.0±9.2	800	<sup>19,21</sup> CLELAND	82 SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
62.0±4.4	3200	<sup>19,21</sup> CLELAND	82 SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
55 ±4	3600	<sup>19,21</sup> CLELAND	82 SPEC	-	50 $K^+ p \rightarrow K_S^0 \pi^- p$
62.6±3.8	380	DELFOSE	81 SPEC	+	50 $K^\pm p \rightarrow K^\pm \pi^0 p$
50.5±3.9	187	DELFOSE	81 SPEC	-	50 $K^\pm p \rightarrow K^\pm \pi^0 p$

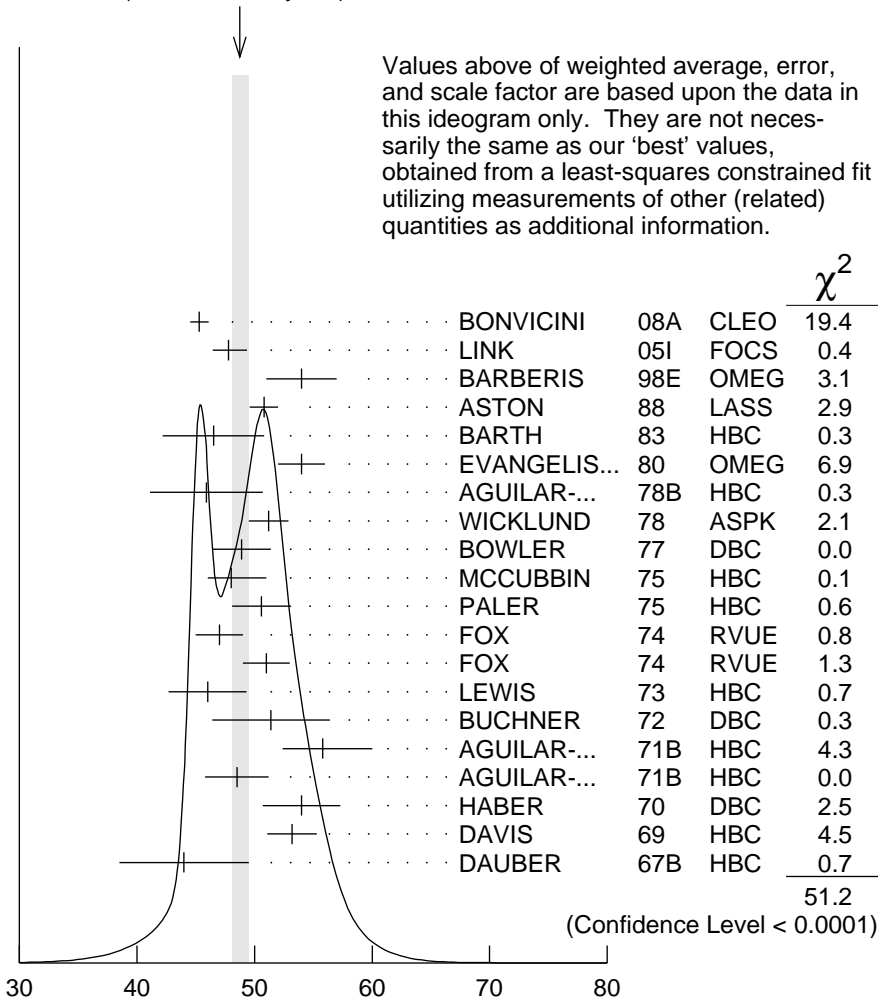
## CHARGED ONLY, PRODUCED IN $\tau$ LEPTON DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>46.2±0.6±1.2</b>	53k	<sup>24</sup> EPIFANOV	07	BELL $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
46.5±1.1		<sup>25</sup> BOITO	10	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
46.2±0.4		<sup>26,27</sup> BOITO	09	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
47.5±0.4		<sup>26,28</sup> JAMIN	08	RVUE $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$
55 ±8		<sup>29</sup> BARATE	99R	ALEP $\tau^- \rightarrow K^- \pi^0 \nu_\tau$

## NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>48.7 ±0.8 OUR FIT</b>	Error includes scale factor of 1.7.				
<b>48.7 ±0.7 OUR AVERAGE</b>	Error includes scale factor of 1.6. See the ideogram below.				
45.3 ±0.5 ±0.6	141k	<sup>30</sup> BONVICINI	08A	CLEO	$D^+ \rightarrow K^- \pi^+ \pi^+$
47.79±0.86 <sup>+1.32</sup> <sub>-1.06</sub>	18k	<sup>31</sup> LINK	05I	FOCS	0 $D^+ \rightarrow K^- \pi^+ \mu^+ \nu_\mu$
54 ±3		BARBERIS	98E	OMEG	450 $pp \rightarrow p_f p_s K^* \bar{K}^*$
50.8 ±0.8 ±0.9		ASTON	88	LASS	0 11 $K^- p \rightarrow K^- \pi^+ n$
46.5 ±4.3	5900	BARTH	83	HBC	0 70 $K^+ p \rightarrow K^+ \pi^- X$
54 ±2	28k	EVANGELIS..	80	OMEG	0 10 $\pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$
45.9 ±4.8	1180	AGUILAR-...	78B	HBC	0 0.76 $\bar{p} p \rightarrow K^\mp K_S^0 \pi^\pm$
51.2 ±1.7		WICKLUND	78	ASPK	0 3,4,6 $K^\pm N \rightarrow (K\pi)^0 N$
48.9 ±2.5		BOWLER	77	DBC	0 5.4 $K^+ d \rightarrow K^+ \pi^- pp$
48 <sup>+3</sup> <sub>-2</sub>	3600	MCCUBBIN	75	HBC	0 3.6 $K^- p \rightarrow K^- \pi^+ n$
50.6 ±2.5	22k	<sup>20</sup> PALER	75	HBC	0 14.3 $K^- p \rightarrow (K\pi)^0 X$
47 ±2	10k	FOX	74	RVUE	0 2 $K^- p \rightarrow K^- \pi^+ n$
51 ±2		FOX	74	RVUE	0 2 $K^+ n \rightarrow K^+ \pi^- p$
46.0 ±3.3	3186	<sup>19</sup> LEWIS	73	HBC	0 2.1-2.7 $K^+ p \rightarrow K\pi\pi p$
51.4 ±5.0	1700	<sup>19</sup> BUCHNER	72	DBC	0 4.6 $K^+ n \rightarrow K^+ \pi^- p$
55.8 <sup>+4.2</sup> <sub>-3.4</sub>	2934	<sup>19</sup> AGUILAR-...	71B	HBC	0 3.9,4.6 $K^- p \rightarrow K^- \pi^+ n$
48.5 ±2.7	5362	AGUILAR-...	71B	HBC	0 3.9,4.6 $K^- p \rightarrow$ $K^- \pi^+ \pi^- p$
54.0 ±3.3	4300	<sup>19,21</sup> HABER	70	DBC	0 3 $K^- N \rightarrow K^- \pi^+ X$
53.2 ±2.1	10k	<sup>19</sup> DAVIS	69	HBC	0 12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$
44 ±5.5	1040	<sup>19</sup> DAUBER	67B	HBC	0 2.0 $K^- p \rightarrow K^- \pi^+ \pi^- p$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
45.7 ±1.1 ±0.5	14.4k	<sup>32</sup> MITCHELL	09A	CLEO	$D_s^+ \rightarrow K^+ K^- \pi^+$
50.6 ±0.9	20k	<sup>26</sup> AUBERT	07AK	BABR	10.6 $e^+ e^- \rightarrow$ $K^{*0} K^\pm \pi^\mp \gamma$

WEIGHTED AVERAGE  
 $48.7 \pm 0.7$  (Error scaled by 1.6)



NEUTRAL ONLY (MeV)

- 19 Width errors enlarged by us to  $4 \times \Gamma / \sqrt{N}$ ; see note.
- 20 Inclusive reaction. Complicated background and phase-space effects.
- 21 Number of events in peak reevaluated by us.
- 22 K-matrix pole.
- 23 From a partial wave amplitude analysis.
- 24 From a fit in the  $K_0^*(800) + K^*(892) + K^*(1410)$  model.
- 25 From the pole position of the  $K\pi$  vector form factor using EPIFANOV 07 and constraints from  $K_{J3}$  decays in ANTONELLI 10.
- 26 Systematic uncertainties not estimated.
- 27 From the pole position of the  $K\pi$  vector form factor in the complex  $s$ -plane and using EPIFANOV 07 data.
- 28 Reanalysis of EPIFANOV 07 using resonance chiral theory.
- 29 With mass and width of the  $K^*(1410)$  fixed at 1412 MeV and 227 MeV, respectively.
- 30 From the isobar model with a complex pole for the  $\kappa$ .
- 31 Fit to  $K\pi$  mass spectrum includes a non-resonant scalar component.
- 32 This value comes from a fit with  $\chi^2$  of 178/117.

## **$K^*(892)$ DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )	Confidence level
$\Gamma_1$ $K\pi$	$\sim 100$	%
$\Gamma_2$ $(K\pi)^\pm$	$(99.901 \pm 0.009)$	%
$\Gamma_3$ $(K\pi)^0$	$(99.761 \pm 0.021)$	%
$\Gamma_4$ $K^0\gamma$	$(2.39 \pm 0.21) \times 10^{-3}$	
$\Gamma_5$ $K^\pm\gamma$	$(9.9 \pm 0.9) \times 10^{-4}$	
$\Gamma_6$ $K\pi\pi$	$< 7$	$\times 10^{-4}$ 95%

### **CONSTRAINED FIT INFORMATION**

An overall fit to the total width and a partial width uses 13 measurements and one constraint to determine 3 parameters. The overall fit has a  $\chi^2 = 7.8$  for 11 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.

$$\begin{array}{c}
 x_5 \\
 \Gamma
 \end{array}
 \begin{array}{|c|}
 \hline
 -100 \\
 \hline
 19 \quad -19 \\
 \hline
 \end{array}
 \begin{array}{c}
 \\
 x_2 \quad x_5
 \end{array}$$

Mode	Rate (MeV)
$\Gamma_2$ $(K\pi)^\pm$	$50.7 \pm 0.9$
$\Gamma_5$ $K^\pm\gamma$	$0.050 \pm 0.005$

### **CONSTRAINED FIT INFORMATION**

An overall fit to the total width and a partial width uses 21 measurements and one constraint to determine 3 parameters. The overall fit has a  $\chi^2 = 51.2$  for 19 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.

$$\begin{array}{c}
 x_4 \\
 \Gamma
 \end{array}
 \begin{array}{|c|}
 \hline
 -100 \\
 \hline
 18 \quad -18 \\
 \hline
 \end{array}
 \begin{array}{c}
 \\
 x_3 \quad x_4
 \end{array}$$

Mode	Rate (MeV)	Scale factor
$\Gamma_3$ $(K\pi)^0$	$48.6 \pm 0.8$	1.7

$\Gamma_4 \quad K^0 \gamma$ 

0.117 ± 0.010

**K\*(892) PARTIAL WIDTHS** $\Gamma(K^0 \gamma)$  $\Gamma_4$ 

VALUE (keV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT	
<b>117 ± 10 OUR FIT</b>						
<b>116.5 ± 9.9</b>	584	CARLSMITH	86	SPEC	0	$K_L^0 A \rightarrow K_S^0 \pi^0 A$

 $\Gamma(K^\pm \gamma)$  $\Gamma_5$ 

VALUE (keV)	DOCUMENT ID	TECN	CHG	COMMENT	
<b>50 ± 5 OUR FIT</b>					
<b>50 ± 5 OUR AVERAGE</b>					
48 ± 11	BERG	83	SPEC	-	156 $K^- A \rightarrow \bar{K} \pi A$
51 ± 5	CHANDLEE	83	SPEC	+	200 $K^+ A \rightarrow K \pi A$

**K\*(892) BRANCHING RATIOS** $\Gamma(K^0 \gamma)/\Gamma_{\text{total}}$  $\Gamma_4/\Gamma$ 

VALUE (units $10^{-3}$ )	DOCUMENT ID	TECN	CHG	COMMENT	
<b>2.39 ± 0.21 OUR FIT</b>					
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1.5 ± 0.7	CARITHERS	75B	CNTR	0	8–16 $\bar{K}^0 A$

 $\Gamma(K^\pm \gamma)/\Gamma_{\text{total}}$  $\Gamma_5/\Gamma$ 

VALUE (units $10^{-3}$ )	CL%	DOCUMENT ID	TECN	CHG	COMMENT	
<b>0.99 ± 0.09 OUR FIT</b>						
• • • We do not use the following data for averages, fits, limits, etc. • • •						
< 1.6	95	BEMPORAD	73	CNTR	+	10–16 $K^+ A$

 $\Gamma(K \pi \pi)/\Gamma((K \pi)^\pm)$  $\Gamma_6/\Gamma_2$ 

VALUE	CL%	DOCUMENT ID	TECN	CHG	COMMENT	
<b>&lt; 7 × 10<sup>-4</sup></b>	95	JONGEJANS	78	HBC	4 $K^- p \rightarrow p \bar{K}^0 2\pi$	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
< 20 × 10 <sup>-4</sup>		WOJCICKI	64	HBC	-	1.7 $K^- p \rightarrow \bar{K}^0 \pi^- p$

**K\*(892) REFERENCES**

ANTONELLI	10	EPJ C69 399	M. Antonelli <i>et al.</i>	(FlaviaNet Working Group)
BOITO	10	JHEP 1009 031	D.R. Boito, R. Escribano, M. Jamin	(BARC)
BOITO	09	EPJ C59 821	D.R. Boito, R. Escribano, M. Jamin	
MITCHELL	09A	PR D79 072008	R.E. Mitchell <i>et al.</i>	(CLEO Collab.)
BONVICINI	08A	PR D78 052001	G. Bonvicini <i>et al.</i>	(CLEO Collab.)
JAMIN	08	PL B664 78	M. Jamin, A. Pich, J. Portoles	
AUBERT	07AK	PR D76 012008	B. Aubert <i>et al.</i>	(BABAR Collab.)
EPIFANOV	07	PL B654 65	D. Epifanov <i>et al.</i>	(BELLE Collab.)
LINK	05I	PL B621 72	J.M. Link <i>et al.</i>	(FNAL FOCUS Collab.)
BONVICINI	02	PRL 88 111803	G. Bonvicini <i>et al.</i>	(CLEO Collab.)
PDG	00	EPJ C15 1	D.E. Groom <i>et al.</i>	
ABELE	99D	PL B468 178	A. Abele <i>et al.</i>	(Crystal Barrel Collab.)
BARATE	99R	EPJ C11 599	R. Barate <i>et al.</i>	(ALEPH Collab.)
BARBERIS	98E	PL B436 204	D. Barberis <i>et al.</i>	(Omega Expt.)



BIRD	89	SLAC-332	P.F. Bird	(SLAC)
ASTON	88	NP B296 493	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
ATKINSON	86	ZPHY C30 521	M. Atkinson <i>et al.</i>	(BONN, CERN, GLAS+)
CARLSMITH	86	PRL 56 18	D. Carlsmith <i>et al.</i>	(EFI, SACL)
BAUBILLIER	84B	ZPHY C26 37	M. Baubillier <i>et al.</i>	(BIRM, CERN, GLAS+)
NAPIER	84	PL 149B 514	A. Napier <i>et al.</i>	(TUFTS, ARIZ, FNAL, FLOR+)
BARTH	83	NP B223 296	M. Barth <i>et al.</i>	(BRUX, CERN, GENO, MONS+)
BERG	83	Thesis UMI 83-21652	D.M. Berg	(ROCH)
CHANDLEE	83	PRL 51 168	C. Chandlee <i>et al.</i>	(ROCH, FNAL, MINN)
CLELAND	82	NP B208 189	W.E. Cleland <i>et al.</i>	(DURH, GEVA, LAUS+)
DELFOSSÉ	81	NP B183 349	A. Delfosse <i>et al.</i>	(GEVA, LAUS)
TOAFF	81	PR D23 1500	S. Toaff <i>et al.</i>	(ANL, KANS)
AJINENKO	80	ZPHY C5 177	I.V. Ajinenko <i>et al.</i>	(SERP, BRUX, MONS+)
EVANGELIS...	80	NP B165 383	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)
AGUILAR-...	78B	NP B141 101	M. Aguilar-Benitez <i>et al.</i>	(MADR, TATA+)
BALAND	78	NP B140 220	J.F. Baland <i>et al.</i>	(MONS, BELG, CERN+)
COOPER	78	NP B136 365	A.M. Cooper <i>et al.</i>	(TATA, CERN, CDEF+)
JONGEJANS	78	NP B139 383	B. Jongejans <i>et al.</i>	(ZEEM, CERN, NIJM+)
WICKLUND	78	PR D17 1197	A.B. Wicklund <i>et al.</i>	(ANL)
BOWLER	77	NP B126 31	M.G. Bowler <i>et al.</i>	(OXF)
CARITHERS	75B	PRL 35 349	W.C.J. Carithers <i>et al.</i>	(ROCH, MCGI)
MCCUBBIN	75	NP B86 13	N.A. McCubbin, L. Lyons	(OXF)
PALER	75	NP B96 1	K. Paler <i>et al.</i>	(RHEL, SACL, EPOL)
FOX	74	NP B80 403	G.C. Fox, M.L. Griss	(CIT)
MATISON	74	PR D9 1872	M.J. Matison <i>et al.</i>	(LBL)
BEMPORAD	73	NP B51 1	C. Bemporad <i>et al.</i>	(CERN, ETH, LOIC)
CLARK	73	NP B54 432	A.G. Clark, L. Lyons, D. Radojicic	(OXF)
LEWIS	73	NP B60 283	P.H. Lewis <i>et al.</i>	(LOWC, LOIC, CDEF)
LINGLIN	73	NP B55 408	D. Linglin	(CERN)
BUCHNER	72	NP B45 333	K. Buchner <i>et al.</i>	(MPIM, CERN, BRUX)
AGUILAR-...	71B	PR D4 2583	M. Aguilar-Benitez, R.L. Eisner, J.B. Kinson	(BNL)
HABER	70	NP B17 289	B. Haber <i>et al.</i>	(REHO, SACL, BGNA, EPOL)
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)
SCHWEING...	68	PR 166 1317	F. Schweingruber <i>et al.</i>	(ANL, NWES)
BARASH	67B	PR 156 1399	N. Barash <i>et al.</i>	(COLU)
BARLOW	67	NC 50A 701	J. Barlow <i>et al.</i>	(CERN, CDEF, IRAD, LIVP)
DAUBER	67B	PR 153 1403	P.M. Dauber <i>et al.</i>	(UCLA)
DEBAERE	67B	NC 51A 401	W. de Baere <i>et al.</i>	(BRUX, CERN)
WOJCICKI	64	PR 135 B484	S.G. Wojcicki	(LRL)