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

K*(892) MASS

CHARGED ONLY, HADROPRODUCED

VALUE (MeV)		DOCUMENT ID		TLCIV	CIIG	COMMENT
891.76±0.25 OUR	AVERA	E				
893.2 ± 0.1 ± 1.0	190k	¹ AAIJ	16N	LHCB		$D^0 ightarrow \ \kappa_S^0 \kappa^\pm \pi^\mp$
892.6 ± 0.5	5840	BAUBILLIER	84 B	HBC -	_	$8.25 K^- p \rightarrow \overline{K}^0 \pi^- p$
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 -	_	$6.5 K^- p \rightarrow \overline{K}{}^0 \pi^- p$
892.8 ± 1.6		AJINENKO	80	HBC -	+	32 $K^+ p \to K^0 \pi^+ X$
890.7 ± 0.9	1800	AGUILAR	78 B	HBC =	±	$0.76 \overline{p}p \rightarrow K^{\mp} K_{5}^{0} \pi^{\pm}$
886.6 ± 2.4	1225	BALAND	78	HBC =	±	$12 \overline{p}p \rightarrow (K\pi)^{\pm} X$
891.7 ± 0.6	6706	COOPER	78	HBC =	±	$0.76 \; \overline{p} p \rightarrow \; (K \pi)^{\pm} \; X$
891.9 ± 0.7	9000	² PALER	75	HBC -	_	$14.3 K^- p \rightarrow (K\pi)^-$
892.2 ±1.5	4404	AGUILAR	71 B	HBC -	_	3.9,4.6 $K^- p \rightarrow (K\pi)^- p$
891 ± 2	1000	CRENNELL	69 D	DBC -	_	$3.9 \ K^- N \rightarrow K^0 \pi^- X$
890 ± 3.0	720	BARLOW	67	HBC =	±	$1.2 \overline{p} p \rightarrow (K^0 \pi)^{\pm} K^{\mp}$
889 ± 3.0	600	BARLOW	67	HBC =	±	$1.2 \overline{p} p \rightarrow (K^0 \pi)^{\pm} K \pi$
891 ± 2.3	620	³ DEBAERE	67 B	HBC -	+	$3.5 K^+ p \rightarrow K^0 \pi^+ p$
891.0 ± 1.2	1700	⁴ WOJCICKI	64		_	$1.7 \ K^- p \rightarrow \ \overline{K}{}^0 \pi^- p$
• • • We do not u	ise the fol	lowing data for av	erage	s, fits, lir	mits,	etc. • • •
893.5 ± 1.1	27k	⁵ ABELE	99 D	CBAR =	±	$0.0 \overline{p} p \rightarrow K^+ K^- \pi^0$
890.4 ± 0.2 ± 0.5	80k	⁶ BIRD	89	LASS -	_	$11~K^-p ightarrow ~\overline{K}^0\pi^-p$
890.0 ± 2.3	800	^{3,4} CLELAND	82	SPEC -	+	30 $K^+ p \to K_S^0 \pi^+ p$
$896.0\ \pm1.1$	3200	^{3,4} CLELAND	82	SPEC -	+	50 $K^+ p \rightarrow K_S^{0} \pi^+ p$
893 ± 1	3600	^{3,4} CLELAND	82	SPEC -	_	$50 K^+ p \rightarrow K_S^0 \pi^- p$
896.0 ± 1.9	380	DELFOSSE	81	SPEC -	+	$50 K^{\pm} p \rightarrow K^{\pm} \pi^{0} p$
886.0 ± 2.3	187	DELFOSSE	81	SPEC -	_	$50 K^{\pm} p \rightarrow K^{\pm} \pi^{0} p$
894.2 ± 2.0	765	³ CLARK	73	HBC -	_	$3.13 K^- p \rightarrow \overline{K}^0 \pi^- p$
894.3 ± 1.5	1150	^{3,4} CLARK	73	HBC -	_	3.3 $K^- p \rightarrow \overline{K}^0 \pi^- p$
892.0 ± 2.6	341	³ SCHWEING	.68	HBC -	_	$5.5 K^- p \rightarrow \overline{K}{}^0 \pi^- p$

 $^{^1}$ Average of fit results with different parametrizations for the $K\pi$ S-wave. 2 Inclusive reaction. Complicated background and phase-space effects. 3 Mass errors enlarged by us to $\Gamma/\sqrt{N}.$ See note. 4 Number of events in peak reevaluated by us.

⁶ From a partial wave amplitude analysis.

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<i>VALUE</i> (MeV)	<u>EVTS</u>	DOCUMENT ID		TECN	COMMENT
895.47±0.20±0.74	53k	¹ EPIFANOV	07	BELL	$ au^- ightarrow \ extbf{K}_S^0 \pi^- u_ au$
• • • We do not use t	the followir	ng data for average	s, fits,	limits, e	etc. • • •
892.0 ± 0.5		² BOITO	10	RVUE	$ au^- ightarrow \ extbf{K}_S^0 \pi^- u_{ au}$
892.0 ± 0.9		^{3,4} BOITO	09	RVUE	$ au^- ightarrow \kappa_S^0 \pi^- u_{ au}$
895.3 ± 0.2		^{4,5} JAMIN	80	RVUE	$ au^- ightarrow au_{m S}^{m 0} \pi^- u_{m au}$
896.4 ±0.9	12k	⁶ BONVICINI	02	CLEO	$ au^- ightarrow \kappa^- \pi^0 u_{ au}$
895 ± 2		⁷ BARATE	99 R	ALEP	$ au^- ightarrow \ extbf{K}^- \pi^0 u_{ au}^{'}$

¹ From a fit in the $K_0^*(800) + K^*(892) + K^*(1410)$ model.

NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
895.55±0.20 OUR A	VERAGE	Error includes so	ale fa		7. See the ideogram below.
$894.68\!\pm\!0.25\!\pm\!0.05$		$^{ m 1}$ ABLIKIM	16F	BES3	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
895.4 ± 0.2 ± 0.2	243k	² DEL-AMO-SA.	.11ı	BABR	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
895.7 ± 0.2 ± 0.3	141k	³ BONVICINI	08A	CLEO	$D^+ \rightarrow K^- \pi^+ \pi^+$
$895.41\!\pm\!0.32 \!+\!0.35 \\ -0.43$	18k	⁴ LINK	051	FOCS	$D^+ \rightarrow K^- \pi^+ \mu^+ \nu_{\mu}$
896 ± 2		BARBERIS	98E	OMEG	450 $pp \rightarrow p_f p_s K^* \overline{K}^*$
895.9 ± 0.5 ± 0.2		ASTON	88	LASS	$11 K^- p \rightarrow K^- \pi^+ n$
894.52 ± 0.63	25k	⁵ ATKINSON	86		20–70 γ <i>p</i>
894.63 ± 0.76	20k	⁵ ATKINSON	86		20–70 γ <i>p</i>
897 ± 1	28k	EVANGELIS	80		10 $\pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$
898.4 ± 1.4	1180	AGUILAR	78 B	HBC	$0.76 \ \overline{p}p \rightarrow K^{\mp} K_S^0 \pi^{\pm}$
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	$5.4 K^+ d \rightarrow K^+ \pi^- pp$
895.5 ± 1.0	3600	MCCUBBIN	75	HBC	3.6 $K^- p \to K^- \pi^+ n$
897.1 ± 0.7	22k	⁵ PALER	75	HBC	14.3 $K^- p \to (K\pi)^0 X$
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		⁶ MATISON	74	HBC	12 $K^+ p \rightarrow K^+ \pi^- \Delta$
896 ± 1	3186	LEWIS	73	HBC	$2.1-2.7 K^+ p \to K \pi \pi p$
894.0 ± 1.3		⁶ LINGLIN	73	HBC	$2-13 K^+ p \rightarrow$
		7			$K^+\pi^-\pi^+p$
898.4 ± 1.3	1700	⁷ BUCHNER	72	DBC	4.6 $K^{+} n \rightarrow K^{+} \pi^{-} p$
897.9 ± 1.1	2934	⁷ AGUILAR	71 B	HBC	3.9,4.6 $K^- p \to K^- \pi^+ n$
898.0 ±0.7	5362	⁷ AGUILAR	71 B	HBC	3.9,4.6 $K^- p \rightarrow K^- \pi^+ \pi^- p$
895 ± 1	4300	⁸ HABER	70	DBC	$3 K^- N \rightarrow K^- \pi^+ X$
893.7 ± 2.0	10k	DAVIS	69	HBC	12 $K^+ p \to K^+ \pi^- \pi^+ p$
894.7 ±1.4	1040	⁷ DAUBER	67 B	HBC	$2.0 \ K^- p \rightarrow K^- \pi^+ \pi^- p$

 $^{^2}$ From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{J3} decays in ANTONELLI 10.

 $^{^3}$ From the pole position of the $K\pi$ vector form factor in the complex s-plane and using

EPIFANOV 07 data.

4 Systematic uncertainties not estimated.

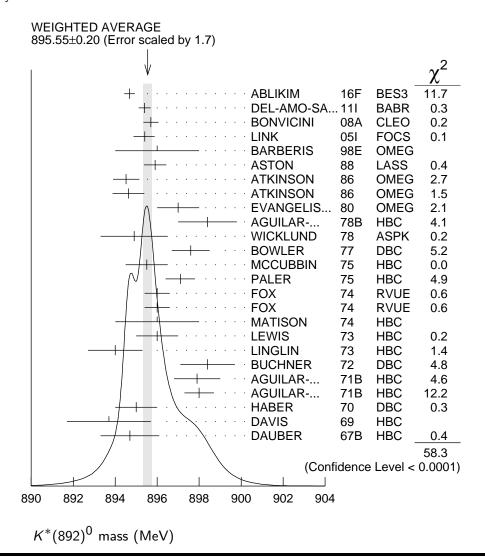
5 Reanalysis of EPIFANOV 07 using resonance chiral theory.

6 Calculated by us from the shift by 4.7 ± 0.9 MeV (statistical uncertainty only) reported in BONVICINI 02 with respect to the world average value from PDG 00.

 $^{^7}$ With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively.

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

¹⁰ Systematic uncertainties not estimated.



¹ Taking also into account the $K_0^*(1430)^0$ and $K_2^*(1430)^0$.

² Taking into account the $K^*(892)^0$, S-wave and P-wave ($K^*(1410)^0$).

 $^{^3}$ From the isobar model with a complex pole for the κ .

⁴ Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

⁵ Inclusive reaction. Complicated background and phase-space effects.

⁶ From pole extrapolation.

⁷ Mass errors enlarged by us to Γ/\sqrt{N} . See note.

⁸ Number of events in peak reevaluated by us.

⁹ This value comes from a fit with χ^2 of 178/117.

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

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
6.7±1.2 OUR	AVERAGE					
$7.7\!\pm\!1.7$	2980	AGUILAR	78 B	HBC	± 0	$0.76 \ \overline{p}p \rightarrow K^{\mp}K_{S}^{0}\pi^{\pm}$
$5.7\!\pm\!1.7$	7338	AGUILAR				3.9,4.6 K ⁻ p
$6.3 \!\pm\! 4.1$	283	¹ BARASH	67 B	HBC		0.0 p p

 $^{^{1}}$ Number of events in peak reevaluated by us.

K*(892) RANGE PARAMETER

All from partial wave amplitude analyses.

$VALUE (GeV^{-1})$	EVTS	DOCUMENT II	D	TECN	CHG	COMMENT
$2.1 \pm 0.5 \pm 0.5$	243k	¹ DEL-AMO-S	SA.11ı	BABR	0	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
$3.96 \pm 0.54 {+1.31 \atop -0.90}$	18k	² LINK	051	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 us	se the fo	llowing data for a	verages	s, fits, lir	nits, et	.c. • • •
$12.1 \pm 3.2 \pm 3.0$		BIRD	89	LASS	_	11 $K^- p \rightarrow \overline{K}{}^0 \pi^- p$
¹ Taking into acco		` '				410) ⁰).

² Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

K*(892) WIDTH

CHARGED ONLY, HADROPRODUCED

<i>VALUE</i> (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
50.3±0.8 OUR	FIT					
50.3±0.8 OUR	AVERAC	3E				
$47.2\!\pm\!0.3\!\pm\!2.3$	190k	¹ AAIJ	16N	LHCB		$D^0 \rightarrow K_S^0 K^{\pm} \pi^{\mp}$
49 ±2	5840	BAUBILLIER	84 B	HBC	_	8.25 $K^- p \to \overline{K}^0 \pi^- p$
56 ±4		NAPIER	84	SPEC	_	$200 \ \pi^- p \rightarrow \ 2K_S^0 X$
51 ± 2	4100	TOAFF	81	HBC	_	$6.5 K^- p \rightarrow \overline{K}^0 \pi^- p$
50.5 ± 5.6		AJINENKO	80	HBC	+	32 $K^+ p \rightarrow K^0 \pi^+ X$
45.8 ± 3.6	1800	AGUILAR	78 B	HBC	\pm	$0.76 \; \overline{p} p \rightarrow \; K^{\mp} K_S^0 \pi^{\pm}$
52.0 ± 2.5	6706	² COOPER	78	HBC	\pm	$0.76 \ \overline{p}p \rightarrow (K\pi)^{\stackrel{\checkmark}{\pm}} X$
52.1 ± 2.2	9000	³ PALER	75	HBC	_	14.3 $K^- p \to (K \pi)^- X$
46.3 ± 6.7	765	² CLARK	73	HBC	_	$3.13~K^-p \rightarrow \overline{K}^0\pi^-p$
48.2 ± 5.7	1150	^{2,4} CLARK	73	HBC	_	3.3 $K^- p \rightarrow \overline{K}^0 \pi^- p$
54.3 ± 3.3	4404	² AGUILAR	71 B	HBC	_	$3.9,4.6 \ K^- p \rightarrow$
		0.4				$(K\pi)^-p$
46 ± 5	1700	^{2,4} WOJCICKI	64	HBC	_	$1.7 \ K^- p \rightarrow \ \overline{K}{}^0 \pi^- p$

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

54.8 ± 1.7	27k	⁵ ABELE	99 D	CBAR	\pm	$0.0 \overline{p} p \rightarrow K^+ K^- \pi^0$
$45.2\!\pm\!1\pm\!2$	80k	⁶ BIRD	89	LASS	_	11 $K^- p \rightarrow \overline{K}^0 \pi^- p$
42.8 ± 7.1	3700	BARTH	83	HBC	+	70 $K^+ p \to K^0 \pi^+ X$
64.0 ± 9.2	800	^{2,4} CLELAND	82	SPEC	+	$30 K^+ p \rightarrow K_S^0 \pi^+ p$
62.0 ± 4.4	3200	^{2,4} CLELAND	82	SPEC	+	$50 K^+ p \rightarrow K_S^{0} \pi^+ p$
55 ±4	3600	^{2,4} CLELAND	82	SPEC	_	$50 K^+ p \rightarrow K_S^{0} \pi^- p$
62.6 ± 3.8	380	DELFOSSE	81	SPEC	+	$50 K^{\pm} p \rightarrow K^{\pm} \pi^{0} p$
50.5 ± 3.9	187	DELFOSSE	81	SPEC	_	$50 K^{\pm} p \rightarrow K^{\pm} \pi^{0} p$

 $^{^1}$ Average of fit results with different parametrizations for the K π S-wave.

CHARGED ONLY, PRODUCED IN au LEPTON DECAYS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
$46.2 \pm 0.6 \pm 1.2$	53k	$^{ m 1}$ EPIFANOV	07	BELL	$ au^- ightarrow \ extit{K}_S^0 \pi^- u_ au$
• • • We do not use th	e followin	g data for averages	s, fits,	limits, e	etc. • • •
46.5 ± 1.1		² воіто	10	RVUE	$ au^- ightarrow \ extit{K}_S^0 \pi^- u_{ au}$
46.2 ± 0.4		^{3,4} BOITO	09	RVUE	$ au^- ightarrow \ au^{ar{0}}_{S} \pi^- u_{ au}$
47.5 ± 0.4		^{4,5} JAMIN	80	RVUE	$ au^- ightarrow au_{m S}^{m 0} \pi^- u_{m au}$
55 ±8		⁶ BARATE	99 R	ALEP	$ au^- ightarrow $

 $^{^1}$ From a fit in the $K_0^*(800) + K^*(892) + K^*(1410)$ model.

NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
47.3 ± 0.5 Ol	JR FIT Error	includes scale fact	or of :	1.9.	
47.3 ±0.5 Ol	JR AVERAGE	Error includes sca	ıle fac	tor of 2.	0. See the ideogram below.
$46.53 \pm 0.56 \pm 0$.31	$^{ m 1}$ ABLIKIM	16F	BES3	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
46.5 $\pm 0.3 \pm 0$.2 243k	² DEL-AMO-SA.	111	BABR	$D^+ \rightarrow K^- \pi^+ e^+ \nu_e$
45.3 $\pm 0.5 \pm 0$.6 141k	³ BONVICINI	08A	CLEO	$D^+ \rightarrow K^- \pi^+ \pi^+$
$47.79 \pm 0.86 ^{+1}_{-1}$.32 .06 18k	⁴ LINK	051	FOCS	$D^+ ightarrow K^- \pi^+ \mu^+ u_{\mu}$
54 ±3		BARBERIS	98E	OMEG	450 $pp \rightarrow p_f p_s K^* \overline{K}^*$
$50.8 \pm 0.8 \pm 0$.9	ASTON	88		$11 K^- p \rightarrow K^- \pi^+ n$
46.5 ± 4.3	5900	BARTH	83	HBC	70 $K^+ p \rightarrow K^+ \pi^- X$
54 ± 2	28k	EVANGELIS	80		$10 \pi^- p \to K^+ \pi^- (\Lambda, \Sigma)$
45.9 ± 4.8	1180	AGUILAR	78 B	HBC	$0.76 \; \overline{p}p \rightarrow \; K^{\mp} K_{S}^{0} \pi^{\pm}$
$51.2\ \pm1.7$		WICKLUND	78	ASPK	3,4,6 $K^{\pm} N \rightarrow (K \pi)^{0} N$
48.9 ± 2.5		BOWLER	77	DBC	$5.4 K^+ d \rightarrow K^+ \pi^- pp$
HTTP://PD	G.LBL.GOV	Page 5)	Cr	reated: 5/30/2017 17:20

²Width errors enlarged by us to $4 \times \Gamma/\sqrt{N}$; see note.

³ Inclusive reaction. Complicated background and phase-space effects.

⁴ Number of events in peak reevaluated by us.

⁵ K-matrix pole.

⁶ From a partial wave amplitude analysis.

 $^{^2}$ From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{I3} decays in ANTONELLI 10.

³ From the pole position of the $K\pi$ vector form factor in the complex s-plane and using EPIFANOV 07 data.

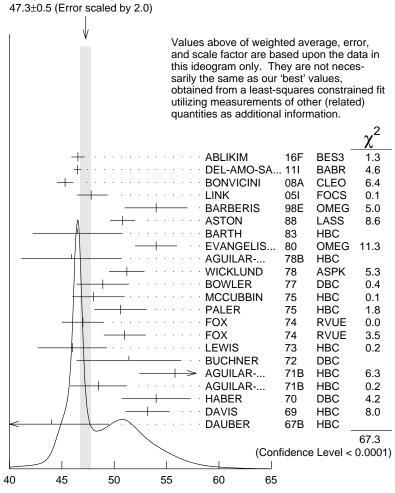
Systematic uncertainties not estimated.

Reanalysis of EPIFANOV 07 using resonance chiral theory.

⁶ With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively.

48	$^{+3}_{-2}$	3600	MCCUBBIN	75	HBC	3.6 $K^- p \to K^- \pi^+ n$
50.6	± 2.5	22k	⁵ PALER	75	HBC	14.3 $K^- p \to (K \pi)^0 X$
47	± 2	10k	FOX	74	RVUE	$2 K^- p \rightarrow K^- \pi^+ n$
51	± 2		FOX	74	RVUE	$2 K^+ n \rightarrow K^+ \pi^- p$
46.0	± 3.3	3186	⁶ LEWIS	73	HBC	$2.1-2.7 K^+ p \rightarrow K \pi \pi p$
51.4	± 5.0	1700	⁶ BUCHNER	72	DBC	4.6 $K^{+} n \rightarrow K^{+} \pi^{-} p$
55.8	$+4.2 \\ -3.4$	2934	6 AGUILAR	71 B	НВС	3.9,4.6 $K^- p \rightarrow K^- \pi^+ n$
48.5	± 2.7	5362	AGUILAR	71 B	HBC	3.9,4.6 $K^- p \rightarrow$
						$\kappa^-\pi^+\pi^-p$
54.0	± 3.3	4300	^{6,7} HABER	70	DBC	$3 K^- N \rightarrow K^- \pi^+ X$
53.2	± 2.1	10k	⁶ DAVIS	69	HBC	12 $K^+ p \to K^+ \pi^- \pi^+ p$
44	± 5.5	1040	⁶ DAUBER	67 B	HBC	$2.0 \ K^- p \rightarrow K^- \pi^+ \pi^- p$
• • •	We do not use	e the follow	wing data for avera	ages,	fits, limi	ts, etc. ● ●
44.90	0 ± 0.30		LEES	13F	BABR	$D^+ \rightarrow K^+ K^- \pi^+$
45.7	$\pm 1.1\ \pm 0.5$	14.4k	⁸ MITCHELL	09A	CLEO	$D_s^+ \rightarrow K^+ K^- \pi^+$
50.6	± 0.9	20k	⁹ AUBERT	07AK	BABR	$10.6 \begin{array}{l} e^+e^- \rightarrow \\ K^{*0} K^{\pm} \pi^{\mp} \gamma \end{array}$

WEIGHTED AVERAGE



NEUTRAL ONLY (MeV)

K*(892) DECAY MODES

	Mode	Fraction (Γ_i/Γ)	Confidence level
$\overline{\Gamma_1}$	$K\pi$	~ 100	%
Γ_2	$(K\pi)^{\pm}$	(99.900 ± 0.009)	%
Γ_3	$(\kappa\pi)^0$ $\kappa^0\gamma$ $\kappa^\pm\gamma$	(99.754 ± 0.021)	%
Γ_4	$K^0\gamma$	(2.46 ± 0.21)	\times 10 ⁻³
Γ_5	$\mathcal{K}^{\pm}\gamma$	(1.00 ± 0.09)	\times 10 ⁻³
Γ_6	$K\pi\pi$	< 7	$\times 10^{-4}$ 95%

CONSTRAINED FIT INFORMATION

An overall fit to the total width and a partial width uses 14 measurements and one constraint to determine 3 parameters. The overall fit has a $\chi^2 = 9.8$ for 12 degrees of freedom.

The following off-diagonal array elements are the correlation coefficients $\left\langle \delta p_i \delta p_j \right\rangle / (\delta p_i \cdot \delta p_j)$, 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.

$$x_5$$
 $\begin{bmatrix} -100 \\ \Gamma & 18 & -18 \\ x_2 & x_5 \end{bmatrix}$

	Mode	Rate (MeV)
Γ ₂ Γ ₅	$(\kappa\pi)^{\pm}$ $\kappa^{\pm}\gamma$	50.2 ± 0.8 0.050 ± 0.005

 $^{^1\,\}mathrm{Taking}$ also into account the $\mathrm{K}_0^*(1430)^0$ and $\mathrm{K}_2^*(1430)^0.$

² Taking into account the $K^*(892)^0$, S-wave and P-wave ($K^*(1410)^0$).

 $^{^3}$ From the isobar model with a complex pole for the κ .

⁴ Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

⁵ Inclusive reaction. Complicated background and phase-space effects.

⁶ Width errors enlarged by us to $4 \times \Gamma/\sqrt{N}$; see note.

 $^{^{7}}$ Number of events in peak reevaluated by us.

⁸ This value comes from a fit with χ^2 of 178/117.

⁹ Systematic uncertainties not estimated.

CONSTRAINED FIT INFORMATION

An overall fit to the total width and a partial width uses 23 measurements and one constraint to determine 3 parameters. The overall fit has a $\chi^2 = 68.4$ for 21 degrees of freedom.

The following off-diagonal array elements are the correlation coefficients $\left\langle \delta p_i \delta p_j \right\rangle / (\delta p_i \cdot \delta p_j)$, 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.

$$\begin{array}{c|cccc}
x_4 & -100 \\
\Gamma & 12 & -12 \\
\hline
& x_3 & x_4
\end{array}$$

Mode	Rate (MeV)	Scale factor
$\Gamma_3 (K\pi)^0$ $\Gamma_4 K^0\gamma$	$47.2 \pm 0.5 \ 0.117 \pm 0.010$	1.9

K*(892) PARTIAL WIDTHS

$\Gamma(K^0\gamma)$								Γ ₄
VALUE (keV)	EVTS	DOCUME	ENT ID		TECN	CHG	COMMENT	
116 ±10 OUR F	IT						_	
116.5± 9.9	584	CARLS	MITH	86	SPEC	0	$K_L^0 A \rightarrow K$	$\frac{0}{S}\pi^{0}A$
$\Gamma(K^{\pm}\gamma)$ VALUE (keV) 50 ± 5 OUR FIT		JMENT ID		TECN	<u>CHG</u>	COMM	1ENT	Γ ₅
50± 5 OUR AVER							_	
48 ± 11	BER	G	83	SPEC			$K^- A \to \overline{K} \pi$	
51± 5	CHA	NDLEE	83	SPEC	+	200 K	$K^+ A \rightarrow K \pi$	A

K*(892) BRANCHING RATIOS

$\Gamma(K^0\gamma)/\Gamma_{\text{total}}$				Γ_4/Γ
$VALUE$ (units 10^{-3})	DOCUMENT ID	TECN CHG	COMMENT	
2.46 ± 0.21 OUR FIT				
• • • We do not use th	e following data for av	verages, fits, lin	mits, etc. • • •	
$1.5\ \pm0.7$	CARITHERS 75B	CNTR 0	8–16 \overline{K}^0 A	
$\Gamma(K^{\pm}\gamma)/\Gamma_{ m total}$				Γ_5/Γ
VALUE (units 10^{-3}) CL%	DOCUMENT ID	TECN	CHG COMMENT	
1.00±0.09 OUR FIT				
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