NODE=M018

$K^*(892)$

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

$K^*(892)$ T-Matrix Pole $\sqrt{s}$

NODE=M018TMP

NODE=M018TMP

→ UNCHECKED ←

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
$(890 \pm 14) - i\,(26 \pm 6)$ OUR ESTIMATE				
$(890 \pm 2) - i\,(25.6 \pm 1.2)$	[1] PELAEZ	20	RVUE	$\pi K \to \pi K$
$(892 \pm 1) - i\,(29 \pm 1)$	[2] PELAEZ	17	RVUE	$\pi K \to \pi K$
$(889 \pm 13) - i\,(24 \pm 4)$	[3] PELAEZ	04A	RVUE	$\pi K \to \pi K$

OCCUR=2

[1] Extracted employing πK partial wave analysis from ESTABROOKS 78 and ASTON 88, Roy-Steiner equations and once subtracted forward dispersion relations. NODE=M018TMP;LINKAGE=A

[2] Reanalysis of ESTABROOKS 78 and ASTON 88 satisfying Forward Dispersion Relations and using sequences of Pade approximants. NODE=M018TMP;LINKAGE=E

[3] Reanalysis of data from ESTABROOKS 78 and ASTON 88 in the unitarized ChPT model. NODE=M018TMP;LINKAGE=B

$K^*(892)$ MASS

NODE=M018205

CHARGED ONLY, HADROPRODUCED

NODE=M018M1

NODE=M018M1

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT	
891.67±0.26 OUR AVERAGE							
892.2 ±0.5 ±1.7		ALBRECHT	20	CBAR		0.9 $\overline{p}p \to K^+K^-\pi^0$	
892.6 ±0.5	5840	BAUBILLIER	84B	HBC	−	8.25 $K^-p \to \overline{K}^0\pi^-p$	
888 ±3		NAPIER	84	SPEC	+	200 $\pi^-p \to 2K^0_S X$	
891 ±1		NAPIER	84	SPEC	−	200 $\pi^-p \to 2K^0_S X$	OCCUR=2
891.7 ±2.1	3700	BARTH	83	HBC	+	70 $K^+p \to K^0\pi^+X$	
891 ±1	4100	TOAFF	81	HBC	−	6.5 $K^-p \to \overline{K}^0\pi^-p$	
892.8 ±1.6		AJINENKO	80	HBC	+	32 $K^+p \to K^0\pi^+X$	
890.7 ±0.9	1800	AGUILAR-...	78B	HBC	±	0.76 $\overline{p}p \to K^\mp K^0_S\pi^\pm$	
886.6 ±2.4	1225	BALAND	78	HBC	±	12 $\overline{p}p \to (K\pi)^\pm X$	
891.7 ±0.6	6706	COOPER	78	HBC	±	0.76 $\overline{p}p \to (K\pi)^\pm X$	
891.9 ±0.7	9000	[1] PALER	75	HBC	−	14.3 $K^-p \to (K\pi)^-X$	
892.2 ±1.5	4404	AGUILAR-...	71B	HBC	−	3.9,4.6 $K^-p \to (K\pi)^-p$	
891 ±2	1000	CRENNELL	69D	DBC	−	3.9 $K^-N \to K^0\pi^-X$	
890 ±3.0	720	BARLOW	67	HBC	±	1.2 $\overline{p}p \to (K^0\pi)^\pm K^\mp$	
889 ±3.0	600	BARLOW	67	HBC	±	1.2 $\overline{p}p \to (K^0\pi)^\pm K\pi$	OCCUR=2
891 ±2.3	620	[2] DEBAERE	67B	HBC	+	3.5 $K^+p \to K^0\pi^+p$	
891.0 ±1.2	1700	[3] WOJCICKI	64	HBC	−	1.7 $K^-p \to \overline{K}^0\pi^-p$	
• • • We do not use the following data for averages, fits, limits, etc. • • •							
893.6 ±0.1 $^{+0.2}_{-0.3}$	183k	ABLIKIM	19AQ	BES	±	$J/\psi \to K^+K^-\pi^0$	
895.6 ±0.8	4k	[4] LEES	17C	BABR		$J/\psi \to K^0_S K^\pm\pi^\mp$	
893.2 ±0.1 ±1.0	190k	[5] AAIJ	16N	LHCB		$D^0 \to K^0_S K^\pm\pi^\mp$	
893.5 ±1.1	27k	[6] ABELE	99D	CBAR	±	0.0 $\overline{p}p \to K^+K^-\pi^0$	
890.4 ±0.2 ±0.5	80k	[7] BIRD	89	LASS	−	11 $K^-p \to \overline{K}^0\pi^-p$	
890.0 ±2.3	800	[2,3] CLELAND	82	SPEC	+	30 $K^+p \to K^0_S\pi^+p$	
896.0 ±1.1	3200	[2,3] CLELAND	82	SPEC	+	50 $K^+p \to K^0_S\pi^+p$	OCCUR=2
893 ±1	3600	[2,3] CLELAND	82	SPEC	−	50 $K^+p \to K^0_S\pi^-p$	OCCUR=3
896.0 ±1.9	380	DELFOSSE	81	SPEC	+	50 $K^\pm p \to K^\pm\pi^0p$	
886.0 ±2.3	187	DELFOSSE	81	SPEC	−	50 $K^\pm p \to K^\pm\pi^0p$	OCCUR=2
894.2 ±2.0	765	[2] CLARK	73	HBC	−	3.13 $K^-p \to \overline{K}^0\pi^-p$	
894.3 ±1.5	1150	[2,3] CLARK	73	HBC	−	3.3 $K^-p \to \overline{K}^0\pi^-p$	OCCUR=2
892.0 ±2.6	341	[2] SCHWEING...	68	HBC	−	5.5 $K^-p \to \overline{K}^0\pi^-p$	OCCUR=2

[1] Inclusive reaction. Complicated background and phase-space effects. NODE=M018M;LINKAGE=I

[2] Mass errors enlarged by us to $\Gamma/\sqrt{N}$. See note. NODE=M018M;LINKAGE=D

[3] Number of events in peak reevaluated by us. NODE=M018M;LINKAGE=W

[4] From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating. NODE=M018M1;LINKAGE=B

[5] Average of fit results with different parametrizations for the $K\pi$ S-wave. NODE=M018M1;LINKAGE=A

[6] K-matrix pole. NODE=M018M1;LINKAGE=AN

[7] From a partial wave amplitude analysis. NODE=M018M1;LINKAGE=F

CHARGED ONLY, PRODUCED IN τ LEPTON DECAYS

NODE=M018MCT
NODE=M018MCT

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
895.47±0.20±0.74	53k	[1] EPIFANOV	07	BELL	$\tau^- \to K^0_S \pi^- \nu_\tau$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
892.0 ±0.5		[2] BOITO	10	RVUE	$\tau^- \to K^0_S \pi^- \nu_\tau$
892.0 ±0.9		[3,4] BOITO	09	RVUE	$\tau^- \to K^0_S \pi^- \nu_\tau$
895.3 ±0.2		[4,5] JAMIN	08	RVUE	$\tau^- \to K^0_S \pi^- \nu_\tau$
896.4 ±0.9	12k	[6] BONVICINI	02	CLEO	$\tau^- \to K^- \pi^0 \nu_\tau$
895 ±2		[7] BARATE	99R	ALEP	$\tau^- \to K^- \pi^0 \nu_\tau$

[1] From a fit in the $K^*_0(700)$ + $K^*(892)$ + $K^*(1410)$ model. NODE=M018MCT;LINKAGE=EF

[2] From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{l3} decays in ANTONELLI 10. NODE=M018MCT;LINKAGE=BT

[3] From the pole position of the $K\pi$ vector form factor in the complex s-plane and using EPIFANOV 07 data. NODE=M018MCT;LINKAGE=BI

[4] Systematic uncertainties not estimated. NODE=M018MCT;LINKAGE=NS

[5] Reanalysis of EPIFANOV 07 using resonance chiral theory. NODE=M018MCT;LINKAGE=JA

[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. NODE=M018MCT;LINKAGE=BO

[7] With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively. NODE=M018MCT;LINKAGE=BA

NEUTRAL ONLY

NODE=M018M2
NODE=M018M2

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT	
895.55±0.20 OUR AVERAGE		Error includes scale factor of 1.7. See the ideogram below.				
894.68±0.25±0.05		[1] ABLIKIM	16F	BES3	$D^+ \to K^- \pi^+ e^+ \nu_e$	
895.4 ±0.2 ±0.2	243k	[2] DEL-AMO-SA...	11I	BABR	$D^+ \to K^- \pi^+ e^+ \nu_e$	
895.7 ±0.2 ±0.3	141k	[3] BONVICINI	08A	CLEO	$D^+ \to K^- \pi^+ \pi^+$	
895.41±0.32$^{+0.35}_{-0.43}$	18k	[4] LINK	05I	FOCS	$D^+ \to K^- \pi^+ \mu^+ \nu_\mu$	
896 ±2		BARBERIS	98E	OMEG	450 $pp \to p_f p_s K^* \overline{K}^*$	
895.9 ±0.5 ±0.2		ASTON	88	LASS	11 $K^- p \to K^- \pi^+ n$	
894.52±0.63	25k	[5] ATKINSON	86	OMEG	20–70 γp	
894.63±0.76	20k	[5] ATKINSON	86	OMEG	20–70 γp	OCCUR=2
897 ±1	28k	EVANGELIS...	80	OMEG	10 $\pi^- p \to K^+ \pi^- (\Lambda, \Sigma)$	
898.4 ±1.4	1180	AGUILAR-...	78B	HBC	0.76 $\overline{p} p \to K^\mp K^0_S \pi^\pm$	
894.9 ±1.6		WICKLUND	78	ASPK	3,4,6 $K^\pm N \to (K\pi)^0 N$	
897.6 ±0.9		BOWLER	77	DBC	5.4 $K^+ d \to K^+ \pi^- pp$	
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 $K^- p \to K^- \pi^+ n$	
896.0 ±0.6		FOX	74	RVUE	2 $K^+ n \to K^+ \pi^- p$	OCCUR=2
896 ±2		[6] MATISON	74	HBC	12 $K^+ p \to K^+ \pi^- \Delta$	
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 $K^+ p \to K^+ \pi^- \pi^+ p$	
898.4 ±1.3	1700	[7] BUCHNER	72	DBC	4.6 $K^+ n \to K^+ \pi^- p$	
897.9 ±1.1	2934	[7] AGUILAR-...	71B	HBC	3.9,4.6 $K^- p \to K^- \pi^+ n$	
898.0 ±0.7	5362	[7] AGUILAR-...	71B	HBC	3.9,4.6 $K^- p \to K^- \pi^+ \pi^- p$	OCCUR=2
895 ±1	4300	[8] HABER	70	DBC	3 $K^- N \to K^- \pi^+$ X	
893.7 ±2.0	10k	DAVIS	69	HBC	12 $K^+ p \to K^+ \pi^- \pi^+ p$	
894.7 ±1.4	1040	[7] DAUBER	67B	HBC	2.0 $K^- p \to K^- \pi^+ \pi^- p$	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
895.50±0.92±2.6		[9] ADUSZKIEW...	20A	NA61	158 pp	
898.1 ±1.0	4k	[10] LEES	17C	BABR	$J/\psi \to K^0_S K^\pm \pi^\mp$	
895.53±0.17		LEES	13F	BABR	$D^+ \to K^+ K^- \pi^+$	
894.9 ±0.5 ±0.7	14.4k	[11] MITCHELL	09A	CLEO	$D^+_s \to K^+ K^- \pi^+$	
896.2 ±0.3	20k	[12] AUBERT	07AK	BABR	10.6 $e^+ e^- \to K^{*0} K^\pm \pi^\mp \gamma$	
900.7 ±1.1	5900	BARTH	83	HBC	70 $K^+ p \to K^+ \pi^-$ X	

[1] Taking also into account the $K^*_0(1430)^0$ and $K^*_2(1430)^0$. NODE=M018M2;LINKAGE=B

[2] Taking into account the $K^*(892)^0$, S-wave and P-wave ($K^*(1410)^0$). NODE=M018M2;LINKAGE=DE

[3] From the isobar model with a complex pole for the κ. NODE=M018M2;LINKAGE=BO

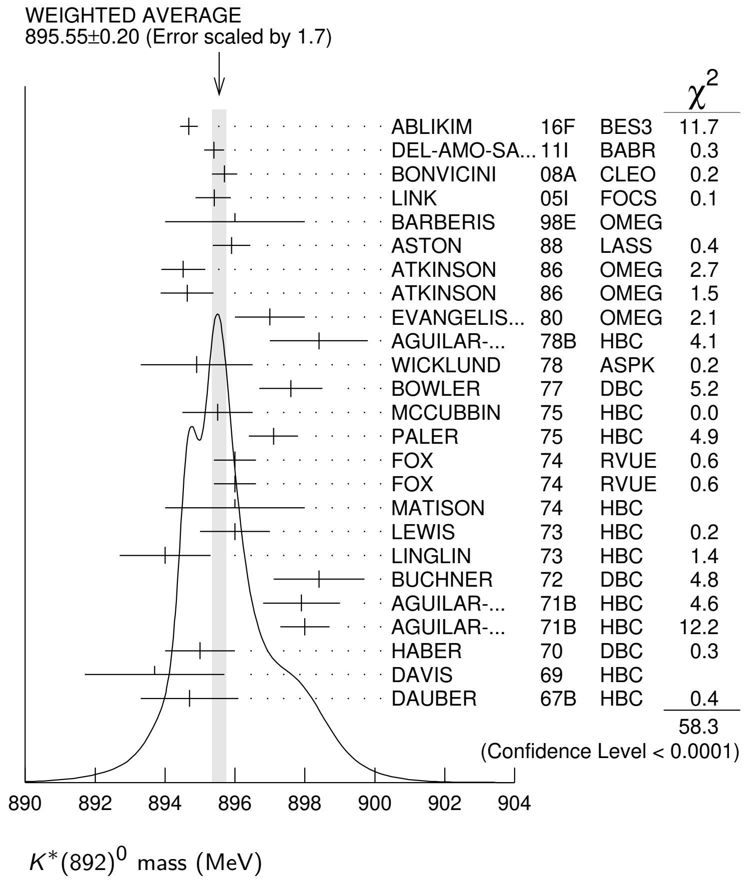
[4] Fit to $K\pi$ mass spectrum includes a non-resonant scalar component. NODE=M018M2;LINKAGE=LI

[5] Inclusive reaction. Complicated background and phase-space effects. NODE=M018M2;LINKAGE=I

[6] From pole extrapolation. NODE=M018M;LINKAGE=C

[7] Mass errors enlarged by us to $\Gamma/\sqrt{N}$. See note. NODE=M018M2;LINKAGE=D

8 Number of events in peak reevaluated by us. NODE=M018M2;LINKAGE=W
9 For transverse momenta between 0.6 and 0.8 GeV/c and rapidity $0 < y < 0.5$. NODE=M018M2;LINKAGE=C
10 From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating. NODE=M018M2;LINKAGE=A
11 This value comes from a fit with χ^2 of 178/117. NODE=M018M2;LINKAGE=MI
12 Systematic uncertainties not estimated. NODE=M018M2;LINKAGE=NS



NODE=M018209

$K^*(892)$ MASSES AND MASS DIFFERENCES

Unrealistically small errors have been reported by some experiments. We use simple "realistic" tests for the minimum errors on the determination of a mass and width from a sample of N events:

$$\delta_{\rm min}(m) = \frac{\Gamma}{\sqrt{N}}, \quad \delta_{\rm min}(\Gamma) = 4\frac{\Gamma}{\sqrt{N}} \ . \qquad (1)$$

We consistently increase unrealistic errors before averaging. For a detailed discussion, see the 1971 edition of this Note.

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

NODE=M018D

NODE=M018D

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*CHG*	*COMMENT*
6.7±1.2 OUR AVERAGE						
7.7±1.7	2980	AGUILAR-...	78B	HBC	±0	0.76 $\overline{p}p \to K^\mp K^0_S \pi^\pm$
5.7±1.7	7338	AGUILAR-...	71B	HBC	−0	3.9,4.6 $K^- p$
6.3±4.1	283	[1] BARASH	67B	HBC		0.0 $\overline{p}p$

[1] Number of events in peak reevaluated by us.

NODE=M018D;LINKAGE=W

$K^*(892)$ RANGE PARAMETER

NODE=M018R

All from partial wave amplitude analyses.

NODE=M018R

NODE=M018R

VALUE (GeV^{-1})	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
2.1 $\pm$0.5 $\pm$0.5	243k	[1] DEL-AMO-SA.	11I	BABR	0	$D^+ \to K^- \pi^+ e^+ \nu_e$
3.96$\pm$0.54$^{+1.31}_{-0.90}$	18k	[2] LINK	05I	FOCS	0	$D^+ \to K^- \pi^+ \mu^+ \nu_\mu$
3.4 $\pm$0.7		ASTON	88	LASS	0	11 $K^- p \to K^- \pi^+ n$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
12.1 $\pm$3.2 $\pm$3.0		BIRD	89	LASS	–	11 $K^- p \to \overline{K}^0 \pi^- p$

[1] Taking into account the $K^*(892)^0$, S-wave and P-wave ($K^*(1410)^0$).
[2] Fit to $K\pi$ mass spectrum includes a non-resonant scalar component.

NODE=M018R;LINKAGE=DE
NODE=M018R;LINKAGE=LI

$K^*(892)$ WIDTH

NODE=M018215

CHARGED ONLY, HADROPRODUCED

NODE=M018W1
NODE=M018W1

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT	
51.4$\pm$0.8 OUR FIT							
51.4$\pm$0.8 OUR AVERAGE							
54.4$\pm$0.9$\pm$1.7		ALBRECHT	20	CBAR		0.9 $\overline{p} p \to K^+ K^- \pi^0$	
49 $\pm$2	5840	BAUBILLIER	84B	HBC	–	8.25 $K^- p \to \overline{K}^0 \pi^- p$	
56 $\pm$4		NAPIER	84	SPEC	–	200 $\pi^- p \to 2K^0_S X$	OCCUR=2
51 $\pm$2	4100	TOAFF	81	HBC	–	6.5 $K^- p \to \overline{K}^0 \pi^- p$	
50.5$\pm$5.6		AJINENKO	80	HBC	+	32 $K^+ p \to K^0 \pi^+ X$	
45.8$\pm$3.6	1800	AGUILAR-...	78B	HBC	$\pm$	0.76 $\overline{p} p \to K^\mp K^0_S \pi^\pm$	
52.0$\pm$2.5	6706	[1] COOPER	78	HBC	$\pm$	0.76 $\overline{p} p \to (K\pi)^\pm X$	
52.1$\pm$2.2	9000	[2] PALER	75	HBC	–	14.3 $K^- p \to (K\pi)^- X$	
46.3$\pm$6.7	765	[1] CLARK	73	HBC	–	3.13 $K^- p \to \overline{K}^0 \pi^- p$	
48.2$\pm$5.7	1150	[1,3] CLARK	73	HBC	–	3.3 $K^- p \to \overline{K}^0 \pi^- p$	OCCUR=2
54.3$\pm$3.3	4404	[1] AGUILAR-...	71B	HBC	–	3.9,4.6 $K^- p \to (K\pi)^- p$	
46 $\pm$5	1700	[1,3] WOJCICKI	64	HBC	–	1.7 $K^- p \to \overline{K}^0 \pi^- p$	
• • • We do not use the following data for averages, fits, limits, etc. • • •							
46.7$\pm$0.2$^{+0.1}_{-0.2}$	183k	ABLIKIM	19AQ	BES	$\pm$	$J/\psi \to K^+ K^- \pi^0$	
43.6$\pm$1.3	4k	[4] LEES	17C	BABR		$J/\psi \to K^0_S K^\pm \pi^\mp$	
47.2$\pm$0.3$\pm$2.3	190k	[5] AAIJ	16N	LHCB		$D^0 \to K^0_S K^\pm \pi^\mp$	
54.8$\pm$1.7	27k	[6] ABELE	99D	CBAR	$\pm$	0.0 $\overline{p} p \to K^+ K^- \pi^0$	
45.2$\pm$1 $\pm$2	80k	[7] BIRD	89	LASS	–	11 $K^- p \to \overline{K}^0 \pi^- p$	
42.8$\pm$7.1	3700	BARTH	83	HBC	+	70 $K^+ p \to K^0 \pi^+ X$	
64.0$\pm$9.2	800	[1,3] CLELAND	82	SPEC	+	30 $K^+ p \to K^0_S \pi^+ p$	
62.0$\pm$4.4	3200	[1,3] CLELAND	82	SPEC	+	50 $K^+ p \to K^0_S \pi^+ p$	OCCUR=2
55 $\pm$4	3600	[1,3] CLELAND	82	SPEC	–	50 $K^+ p \to K^0_S \pi^- p$	OCCUR=3
62.6$\pm$3.8	380	DELFOSSE	81	SPEC	+	50 $K^\pm p \to K^\pm \pi^0 p$	
50.5$\pm$3.9	187	DELFOSSE	81	SPEC	–	50 $K^\pm p \to K^\pm \pi^0 p$	OCCUR=2

[1] Width errors enlarged by us to $4 \times \Gamma/\sqrt{N}$; see note.
[2] Inclusive reaction. Complicated background and phase-space effects.
[3] Number of events in peak reevaluated by us.
[4] From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating.
[5] Average of fit results with different parametrizations for the $K\pi$ S-wave.
[6] K-matrix pole.
[7] From a partial wave amplitude analysis.

NODE=M018W;LINKAGE=D
NODE=M018W;LINKAGE=I
NODE=M018W;LINKAGE=W
NODE=M018W1;LINKAGE=B
NODE=M018W1;LINKAGE=A
NODE=M018W1;LINKAGE=AN
NODE=M018W1;LINKAGE=F

CHARGED ONLY, PRODUCED IN τ LEPTON DECAYS

NODE=M018W5
NODE=M018W5

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
46.2$\pm$0.6$\pm$1.2	53k	[1] EPIFANOV	07	BELL	$\tau^- \to K^0_S \pi^- \nu_\tau$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
46.5$\pm$1.1		[2] BOITO	10	RVUE	$\tau^- \to K^0_S \pi^- \nu_\tau$
46.2$\pm$0.4		[3,4] BOITO	09	RVUE	$\tau^- \to K^0_S \pi^- \nu_\tau$
47.5$\pm$0.4		[4,5] JAMIN	08	RVUE	$\tau^- \to K^0_S \pi^- \nu_\tau$
55 $\pm$8		[6] BARATE	99R	ALEP	$\tau^- \to K^- \pi^0 \nu_\tau$

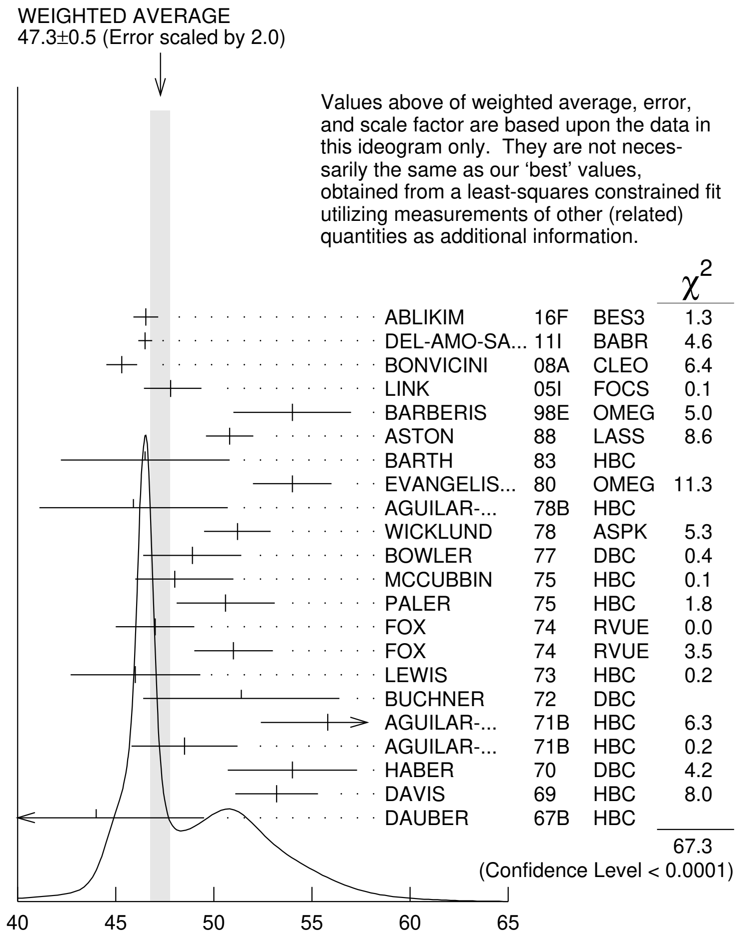
[1] From a fit in the $K_0^*(700)$ + $K^*(892)$ + $K^*(1410)$ model. NODE=M018W5;LINKAGE=EF
[2] From the pole position of the $K\pi$ vector form factor using EPIFANOV 07 and constraints from K_{l3} decays in ANTONELLI 10. NODE=M018W5;LINKAGE=BT
[3] From the pole position of the $K\pi$ vector form factor in the complex s-plane and using EPIFANOV 07 data. NODE=M018W5;LINKAGE=BI
[4] Systematic uncertainties not estimated. NODE=M018W5;LINKAGE=NS
[5] Reanalysis of EPIFANOV 07 using resonance chiral theory. NODE=M018W5;LINKAGE=JA
[6] With mass and width of the $K^*(1410)$ fixed at 1412 MeV and 227 MeV, respectively. NODE=M018W5;LINKAGE=BA

NEUTRAL ONLY

NODE=M018W2
NODE=M018W2

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT	
47.3 ±0.5 OUR FIT Error includes scale factor of 2.0.						
47.3 ±0.5 OUR AVERAGE Error includes scale factor of 2.0. See the ideogram below.						
46.53±0.56±0.31		[1] ABLIKIM	16F	BES3	$D^+ \to K^-\pi^+ e^+\nu_e$	
46.5 ±0.3 ±0.2	243k	[2] DEL-AMO-SA...11I		BABR	$D^+ \to K^-\pi^+ e^+\nu_e$	
45.3 ±0.5 ±0.6	141k	[3] BONVICINI	08A	CLEO	$D^+ \to K^-\pi^+\pi^+$	
47.79±0.86$^{+1.32}_{-1.06}$	18k	[4] LINK	05I	FOCS	$D^+ \to K^-\pi^+\mu^+\nu_\mu$	
54 ±3		BARBERIS	98E	OMEG	450 $pp \to p_f p_s K^* \overline{K}^*$	
50.8 ±0.8 ±0.9		ASTON	88	LASS	11 $K^- p \to K^-\pi^+ n$	
46.5 ±4.3	5900	BARTH	83	HBC	70 $K^+ p \to K^+\pi^- X$	
54 ±2	28k	EVANGELIS...	80	OMEG	10 $\pi^- p \to K^+\pi^-(\Lambda,\Sigma)$	
45.9 ±4.8	1180	AGUILAR-...	78B	HBC	0.76 $\overline{p}p \to K^\mp K_S^0 \pi^\pm$	
51.2 ±1.7		WICKLUND	78	ASPK	3,4,6 $K^\pm N \to (K\pi)^0 N$	
48.9 ±2.5		BOWLER	77	DBC	5.4 $K^+ d \to K^+\pi^- pp$	
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 $K^- p \to K^-\pi^+ n$	
51 ±2		FOX	74	RVUE	2 $K^+ n \to K^+\pi^- p$	OCCUR=2
46.0 ±3.3	3186	[6] LEWIS	73	HBC	2.1–2.7 $K^+ p \to K\pi\pi p$	
51.4 ±5.0	1700	[6] BUCHNER	72	DBC	4.6 $K^+ n \to K^+\pi^- p$	
55.8 $^{+4.2}_{-3.4}$	2934	[6] AGUILAR-...	71B	HBC	3.9,4.6 $K^- p \to K^-\pi^+ n$	
48.5 ±2.7	5362	AGUILAR-...	71B	HBC	3.9,4.6 $K^- p \to K^-\pi^+\pi^- p$	OCCUR=2
54.0 ±3.3	4300	[6,7] HABER	70	DBC	3 $K^- N \to K^-\pi^+ X$	
53.2 ±2.1	10k	[6] DAVIS	69	HBC	12 $K^+ p \to K^+\pi^-\pi^+ p$	
44 ±5.5	1040	[6] DAUBER	67B	HBC	2.0 $K^- p \to K^-\pi^+\pi^- p$	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
48.8 ±1.8 ±2.0		[8] ADUSZKIEW...20A		NA61	158 pp	
52.6 ±1.7	4k	[9] LEES	17C	BABR	$J/\psi \to K_S^0 K^\pm \pi^\mp$	
44.90±0.30		LEES	13F	BABR	$D^+ \to K^+ K^- \pi^+$	
45.7 ±1.1 ±0.5	14.4k	[10] MITCHELL	09A	CLEO	$D_s^+ \to K^+ K^- \pi^+$	
50.6 ±0.9	20k	[11] AUBERT	07AK	BABR	10.6 $e^+e^- \to K^{*0} K^\pm \pi^\mp \gamma$	

[1] Taking also into account the $K_0^*(1430)^0$ and $K_2^*(1430)^0$. NODE=M018W2;LINKAGE=B
[2] Taking into account the $K^*(892)^0$, S-wave and P-wave ($K^*(1410)^0$). NODE=M018W2;LINKAGE=DE
[3] From the isobar model with a complex pole for the κ. NODE=M018W2;LINKAGE=BO
[4] Fit to $K\pi$ mass spectrum includes a non-resonant scalar component. NODE=M018W2;LINKAGE=LN
[5] Inclusive reaction. Complicated background and phase-space effects. NODE=M018W2;LINKAGE=I
[6] Width errors enlarged by us to $4 \times \Gamma/\sqrt{N}$; see note. NODE=M018W2;LINKAGE=D
[7] Number of events in peak reevaluated by us. NODE=M018W2;LINKAGE=W
[8] For transverse momenta between 0.6 and 0.8 GeV/c and rapidity $0 < y < 0.5$. NODE=M018W2;LINKAGE=C
[9] From a Dalitz plot analysis in an isobar model with charged and neutral $K^*(892)$ masses and widths floating. NODE=M018W2;LINKAGE=A
[10] This value comes from a fit with χ^2 of 178/117. NODE=M018W2;LINKAGE=MI
[11] Systematic uncertainties not estimated. NODE=M018W2;LINKAGE=NS



NEUTRAL ONLY (MeV)

$K^*(892)$ DECAY MODES

NODE=M018220;NODE=M018

	Mode	Fraction (Γ_i/Γ)	Confidence level	
Γ_1	$K\pi$	$\sim$ 100 %		DESIG=1;OUR EVAL;→ UNCHECKED ←
Γ_2	$(K\pi)^\pm$	(99.902±0.009) %		DESIG=11
Γ_3	$(K\pi)^0$	(99.754±0.021) %		DESIG=12
Γ_4	$K^0\gamma$	(2.46 ±0.21) $\times 10^{-3}$		DESIG=4
Γ_5	$K^\pm\gamma$	(9.8 ±0.9) $\times 10^{-4}$		DESIG=3
Γ_6	$K\pi\pi$	$<$ 7 $\times 10^{-4}$	95%	DESIG=2

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 $\chi^2 = 10.7$ 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	−100	
Γ	17	−17
	x_2	x_5

	Mode	Rate (MeV)	
Γ_2	$(K\pi)^\pm$	51.4 ±0.8	DESIG=11
Γ_5	$K^\pm\gamma$	0.050±0.005	DESIG=3

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.

x_4	−100	
Γ	13	−13
	x_3	x_4

	Mode	Rate (MeV)	Scale factor	
Γ_3	$(K\pi)^0$	47.2 ±0.5	2.0	DESIG=12
Γ_4	$K^0\gamma$	0.117±0.010		DESIG=4

$K^*(892)$ PARTIAL WIDTHS

NODE=M018225

$\Gamma(K^0\gamma)$ Γ_4

NODE=M018W4
NODE=M018W4

VALUE (keV)	EVTS	DOCUMENT ID		TECN	CHG	COMMENT
116 ±10 OUR FIT						
116.5± 9.9	584	CARLSMITH	86	SPEC	0	$K^0_L A \to K^0_S \pi^0 A$

$\Gamma(K^\pm\gamma)$ Γ_5

NODE=M018W3
NODE=M018W3

VALUE (keV)	DOCUMENT ID		TECN	CHG	COMMENT
50± 5 OUR FIT					
50± 5 OUR AVERAGE					
48±11	BERG	83	SPEC	−	156 $K^- A \to \overline{K}\pi A$
51± 5	CHANDLEE	83	SPEC	+	200 $K^+ A \to K\pi A$

$K^*(892)$ BRANCHING RATIOS

NODE=M018230

$\Gamma(K^0\gamma)/\Gamma_{\text{total}}$ Γ_4/Γ

NODE=M018R3
NODE=M018R3

VALUE (units 10^{-3})	DOCUMENT ID		TECN	CHG	COMMENT
2.46±0.21 OUR FIT					
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1.5 ±0.7	CARITHERS	75B	CNTR	0	8–16 $\overline{K}^0 A$

$\Gamma(K^\pm\gamma)/\Gamma_{\text{total}}$ Γ_5/Γ

NODE=M018R2
NODE=M018R2

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	CHG	COMMENT
0.98±0.09 OUR FIT						
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<1.6	95	BEMPORAD	73	CNTR	+	10–16 $K^+ A$

$\Gamma(K\pi\pi)/\Gamma((K\pi)^\pm)$ Γ_6/Γ_2

NODE=M018R1
NODE=M018R1

VALUE	CL%	DOCUMENT ID		TECN	CHG	COMMENT
$< 7 \times 10^{-4}$	95	JONGEJANS	78	HBC		4 $K^- p \to p\overline{K}^0 2\pi$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
$<20 \times 10^{-4}$		WOJCICKI	64	HBC	−	1.7 $K^- p \to \overline{K}^0 \pi^- p$

$K^*(892)$ REFERENCES

NODE=M018

ADUSZKIEW...	20A	EPJ C80 460	A. Aduszkiewicz *et al.*	(CERN NA61 Collab.)	REFID=60631
ALBRECHT	20	EPJ C80 453	M. Albrecht *et al.*	(Crystal Barrel Collab.)	REFID=60439
PELAEZ	20	PRL 124 172001	J.R. Pelaez *et al.*		REFID=60559
ABLIKIM	19AQ	PR D100 032004	M. Ablikim *et al.*	(BESIII Collab.)	REFID=59909
LEES	17C	PR D95 072007	J.P. Lees *et al.*	(BABAR Collab.)	REFID=57981
PELAEZ	17	EPJ C77 91	J.R. Pelaez, A.Rodas, J.R. de Elvira		REFID=57836
AAIJ	16N	PR D93 052018	R. Aaij *et al.*	(LHCb Collab.)	REFID=57273
ABLIKIM	16F	PR D94 032001	M. Ablikim *et al.*	(BESIII Collab.)	REFID=57307
LEES	13F	PR D87 052010	J.P. Lees *et al.*	(BABAR Collab.)	REFID=55127
DEL-AMO-SA...	11I	PR D83 072001	P. del Amo Sanchez *et al.*	(BABAR Collab.)	REFID=16493
ANTONELLI	10	EPJ C69 399	M. Antonelli *et al.*	(FlaviaNet Working Group)	REFID=53448
BOITO	10	JHEP 1009 031	D.R. Boito, R. Escribano, M. Jamin	(BARC)	REFID=53632
BOITO	09	EPJ C59 821	D.R. Boito, R. Escribano, M. Jamin		REFID=52728

MITCHELL	09A	PR D79 072008	R.E. Mitchell *et al.*	(CLEO Collab.)	REFID=52756
BONVICINI	08A	PR D78 052001	G. Bonvicini *et al.*	(CLEO Collab.)	REFID=52426
JAMIN	08	PL B664 78	M. Jamin, A. Pich, J. Portoles		REFID=52285
AUBERT	07AK	PR D76 012008	B. Aubert *et al.*	(BABAR Collab.)	REFID=51908
EPIFANOV	07	PL B654 65	D. Epifanov *et al.*	(BELLE Collab.)	REFID=51929
LINK	05I	PL B621 72	J.M. Link *et al.*	(FNAL FOCUS Collab.)	REFID=50679
PELAEZ	04A	MPL A19 2879	J.R. Pelaez	(MADU)	REFID=50347
BONVICINI	02	PRL 88 111803	G. Bonvicini *et al.*	(CLEO Collab.)	REFID=48701
PDG	00	EPJ C15 1	D.E. Groom *et al.*	(PDG Collab.)	REFID=47469
ABELE	99D	PL B468 178	A. Abele *et al.*	(Crystal Barrel Collab.)	REFID=47401
BARATE	99R	EPJ C11 599	R. Barate *et al.*	(ALEPH Collab.)	REFID=47366
BARBERIS	98E	PL B436 204	D. Barberis *et al.*	(Omega Expt.)	REFID=46348
BIRD	89	SLAC-332	P.F. Bird	(SLAC)	REFID=41002
ASTON	88	NP B296 493	D. Aston *et al.*	(SLAC, NAGO, CINC, INUS)	REFID=40262
ATKINSON	86	ZPHY C30 521	M. Atkinson *et al.*	(BONN, CERN, GLAS+)	REFID=20564
CARLSMITH	86	PRL 56 18	D. Carlsmith *et al.*	(EFI, SACL)	REFID=22461
BAUBILLIER	84B	ZPHY C26 37	M. Baubillier *et al.*	(BIRM, CERN, GLAS+)	REFID=22459
NAPIER	84	PL 149B 514	A. Napier *et al.*	(TUFTS, ARIZ, FNAL, FLOR+)	REFID=22460
BARTH	83	NP B223 296	M. Barth *et al.*	(BRUX, CERN, GENO, MONS+)	REFID=22456
BERG	83	Thesis UMI 83-21652	D.M. Berg	(ROCH)	REFID=22457
CHANDLEE	83	PRL 51 168	C. Chandlee *et al.*	(ROCH, FNAL, MINN)	REFID=22458
CLELAND	82	NP B208 189	W.E. Cleland *et al.*	(DURH, GEVA, LAUS+)	REFID=22455
DELFOSSE	81	NP B183 349	A. Delfosse *et al.*	(GEVA, LAUS)	REFID=21277
TOAFF	81	PR D23 1500	S. Toaff *et al.*	(ANL, KANS)	REFID=22454
AJINENKO	80	ZPHY C5 177	I.V. Ajinenko *et al.*	(SERP, BRUX, MONS+)	REFID=22449
EVANGELIS...	80	NP B165 383	C. Evangelista *et al.*	(BARI, BONN, CERN+)	REFID=22450
AGUILAR-...	78B	NP B141 101	M. Aguilar-Benitez *et al.*	(MADR, TATA+)	REFID=22438
BALAND	78	NP B140 220	J.F. Baland *et al.*	(MONS, BELG, CERN+)	REFID=20369
COOPER	78	NP B136 365	A.M. Cooper *et al.*	(TATA, CERN, CDEF+)	REFID=22441
ESTABROOKS	78	NP B133 490	P.G. Estabrooks *et al.*	(MCGI, CARL, DURH+)	REFID=22443
Also		PR D17 658	P.G. Estabrooks *et al.*	(MCGI, CARL, DURH+)	REFID=22444
JONGEJANS	78	NP B139 383	B. Jongejans *et al.*	(ZEEM, CERN, NIJM+)	REFID=22445
WICKLUND	78	PR D17 1197	A.B. Wicklund *et al.*	(ANL)	REFID=20124
BOWLER	77	NP B126 31	M.G. Bowler *et al.*	(OXF)	REFID=22437
CARITHERS	75B	PRL 35 349	W.C.J. Carithers *et al.*	(ROCH, MCGI)	REFID=22433
MCCUBBIN	75	NP B86 13	N.A. McCubbin, L. Lyons	(OXF)	REFID=22434
PALER	75	NP B96 1	K. Paler *et al.*	(RHEL, SACL, EPOL)	REFID=22435
FOX	74	NP B80 403	G.C. Fox, M.L. Griss	(CIT)	REFID=22430
MATISON	74	PR D9 1872	M.J. Matison *et al.*	(LBL)	REFID=22431
BEMPORAD	73	NP B51 1	C. Bemporad *et al.*	(CERN, ETH, LOIC)	REFID=22416
CLARK	73	NP B54 432	A.G. Clark, L. Lyons, D. Radojicic	(OXF)	REFID=22426
LEWIS	73	NP B60 283	P.H. Lewis *et al.*	(LOWC, LOIC, CDEF)	REFID=22427
LINGLIN	73	NP B55 408	D. Linglin	(CERN)	REFID=22428
BUCHNER	72	NP B45 333	K. Buchner *et al.*	(MPIM, CERN, BRUX)	REFID=22418
AGUILAR-...	71B	PR D4 2583	M. Aguilar-Benitez, R.L. Eisner, J.B. Kinson	(BNL)	REFID=22408
HABER	70	NP B17 289	B. Haber *et al.*	(REHO, SACL, BGNA, EPOL)	REFID=22406
CRENNELL	69D	PRL 22 487	D.J. Crennell *et al.*	(BNL)	REFID=22399
DAVIS	69	PRL 23 1071	P.J. Davis *et al.*	(LRL)	REFID=22400
SCHWEING...	68	PR 166 1317	F. Schweingruber *et al.*	(ANL, NWES)	REFID=22398
BARASH	67B	PR 156 1399	N. Barash *et al.*	(COLU)	REFID=20160
BARLOW	67	NC 50A 701	J. Barlow *et al.*	(CERN, CDEF, IRAD, LIVP)	REFID=20041
DAUBER	67B	PR 153 1403	P.M. Dauber *et al.*	(UCLA)	REFID=22389
DEBAERE	67B	NC 51A 401	W. de Baere *et al.*	(BRUX, CERN)	REFID=22390
WOJCICKI	64	PR 135 B484	S.G. Wojcicki	(LRL)	REFID=22379