

K*(892)

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

K*(892) MASS

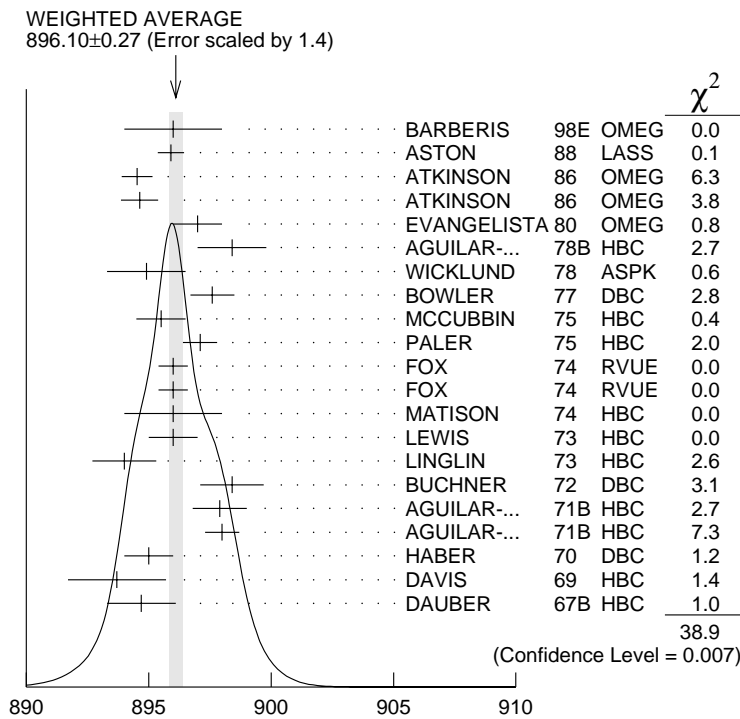
CHARGED ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
891.66 ± 0.26 OUR AVERAGE					
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	² 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	³ DEBAERE	67B HBC	+	3.5 $K^+ p \rightarrow K^0 \pi^+ p$
891.0 ± 1.2	1700	⁴ 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	¹ ABELE	99D CBAR	±	0.0 $\bar{p} p \rightarrow K^+ K^- \pi^0$
890.4 ± 0.2 ± 0.5	79709 ± 801	⁵ BIRD	89 LASS	-	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
890.0 ± 2.3	800	^{3,4} CLELAND	82 SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
896.0 ± 1.1	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	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	³ CLARK	73 HBC	-	3.13 $K^- p \rightarrow \bar{K}^0 \pi^- p$
894.3 ± 1.5	1150	^{3,4} CLARK	73 HBC	-	3.3 $K^- p \rightarrow \bar{K}^0 \pi^- p$
892.0 ± 2.6	341	³ SCHWEING...	68 HBC	-	5.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$

¹ K-matrix pole.

NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
896.10 ± 0.27 OUR AVERAGE		Error includes scale factor of 1.4.			See the ideogram below.
896 ± 2		BARBERIS	98E	OMEG	450 $pp \rightarrow p_f p_s K^* \bar{K}^*$
895.9 ± 0.5 ± 0.2		ASTON	88	LASS	0 11 $K^- p \rightarrow K^- \pi^+ n$
894.52 ± 0.63	25k	² ATKINSON	86	OMEG	20-70 γp
894.63 ± 0.76	20k	² ATKINSON	86	OMEG	20-70 γp
897 ± 1	28k	EVANGELISTA	80	OMEG	0 10 $\pi^- p \rightarrow K^+ \pi^- (\Lambda, \Sigma)$
898.4 ± 1.4	1180	AGUILAR-...	78B	HBC	0 0.76 $\bar{p} p \rightarrow K^\mp K_S^0 \pi^\pm$
894.9 ± 1.6		WICKLUND	78	ASPK	0 3,4,6 $K^\pm N \rightarrow (K\pi)^0 N$
897.6 ± 0.9		BOWLER	77	DBC	0 5.4 $K^+ d \rightarrow K^+ \pi^- pp$
895.5 ± 1.0	3600	MCCUBBIN	75	HBC	0 3.6 $K^- p \rightarrow K^- \pi^+ n$
897.1 ± 0.7	22k	² PALER	75	HBC	0 14.3 $K^- p \rightarrow (K\pi)^0 X$
896.0 ± 0.6	10k	FOX	74	RVUE	0 2 $K^- p \rightarrow K^- \pi^+ n$
896.0 ± 0.6		FOX	74	RVUE	0 2 $K^+ n \rightarrow K^+ \pi^- p$
896 ± 2		⁶ MATISON	74	HBC	0 12 $K^+ p \rightarrow K^+ \pi^- \Delta$
896 ± 1	3186	LEWIS	73	HBC	0 2.1-2.7 $K^+ p \rightarrow K\pi\pi p$
894.0 ± 1.3		⁶ LINGLIN	73	HBC	0 2-13 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$
898.4 ± 1.3	1700	³ BUCHNER	72	DBC	0 4.6 $K^+ n \rightarrow K^+ \pi^- p$
897.9 ± 1.1	2934	³ AGUILAR-...	71B	HBC	0 3.9,4.6 $K^- p \rightarrow K^- \pi^+ n$
898.0 ± 0.7	5362	³ AGUILAR-...	71B	HBC	0 3.9,4.6 $K^- p \rightarrow K^- \pi^+ \pi^- p$
895 ± 1	4300	⁴ HABER	70	DBC	0 3 $K^- N \rightarrow K^- \pi^+ X$
893.7 ± 2.0	10k	DAVIS	69	HBC	0 12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$
894.7 ± 1.4	1040	³ 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. ● ● ●					
900.7 ± 1.1	5900	BARTH	83	HBC	0 70 $K^+ p \rightarrow K^+ \pi^- X$



$K^*(892)^0$ mass (MeV)

- ² Inclusive reaction. Complicated background and phase-space effects.
- ³ Mass errors enlarged by us to Γ/\sqrt{N} . See note.
- ⁴ Number of events in peak reevaluated by us.
- ⁵ From a partial wave amplitude analysis.
- ⁶ From pole extrapolation.

$K^*(892)$ 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:

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

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

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

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
6.7±1.2 OUR AVERAGE					
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	⁷ BARASH	67B HBC		0.0 $\bar{p}p$

⁷ Number of events in peak reevaluated by us.

$K^*(892)$ RANGE PARAMETER

All from partial wave amplitude analyses.

<u>VALUE (GeV⁻¹)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
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 $K^- p \rightarrow \bar{K}^0 \pi^- p$

$K^*(892)$ WIDTH

CHARGED ONLY

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
50.8±0.9 OUR FIT					
50.8±0.9 OUR AVERAGE					
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	⁹ COOPER	78 HBC	±	0.76 $\bar{p}p \rightarrow (K\pi)^\pm X$
52.1±2.2	9000	¹⁰ PALER	75 HBC	-	14.3 $K^- p \rightarrow (K\pi)^- X$
46.3±6.7	765	⁹ CLARK	73 HBC	-	3.13 $K^- p \rightarrow \bar{K}^0 \pi^- p$
48.2±5.7	1150	^{9,11} CLARK	73 HBC	-	3.3 $K^- p \rightarrow \bar{K}^0 \pi^- p$
54.3±3.3	4404	⁹ AGUILAR-...	71B HBC	-	3.9,4.6 $K^- p \rightarrow (K\pi)^- p$
46 ±5	1700	^{9,11} 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	⁸ ABELE	99D CBAR	±	0.0 $\bar{p}p \rightarrow K^+ K^- \pi^0$
45.2±1 ±2	79709±	¹² 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	^{9,11} CLELAND	82 SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
62.0±4.4	3200	^{9,11} CLELAND	82 SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
55 ±4	3600	^{9,11} 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 $K^\pm p \rightarrow K^\pm \pi^0 p$

⁸K-matrix pole.

NEUTRAL ONLY

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
50.7±0.6 OUR FIT	Error includes scale factor of 1.1.				
50.7±0.6 OUR AVERAGE	Error includes scale factor of 1.1.				
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	EVANGELISTA	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 $\begin{smallmatrix} +3 \\ -2 \end{smallmatrix}$	3600	MCCUBBIN	75 HBC	0	3.6 $K^- p \rightarrow K^- \pi^+ n$
50.6±2.5	22k	¹⁰ 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	⁹ LEWIS	73 HBC	0	2.1-2.7 $K^+ p \rightarrow K\pi\pi p$
51.4±5.0	1700	⁹ BUCHNER	72 DBC	0	4.6 $K^+ n \rightarrow K^+ \pi^- p$
55.8 $\begin{smallmatrix} +4.2 \\ -3.4 \end{smallmatrix}$	2934	⁹ 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	^{9,11} HABER	70 DBC	0	3 $K^- N \rightarrow K^- \pi^+ X$
53.2±2.1	10k	⁹ DAVIS	69 HBC	0	12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$
44 ±5.5	1040	⁹ DAUBER	67B HBC	0	2.0 $K^- p \rightarrow K^- \pi^+ \pi^- p$

⁹Width errors enlarged by us to $4 \times \Gamma/\sqrt{N}$; see note.

¹⁰Inclusive reaction. Complicated background and phase-space effects.

¹¹Number of events in peak reevaluated by us.

¹²From a partial wave amplitude analysis.

K*(892) DECAY MODES

Mode	Fraction (Γ_i/Γ)	Confidence level
Γ_1 $K\pi$	~ 100	%
Γ_2 $(K\pi)^\pm$	(99.901±0.009) %	
Γ_3 $(K\pi)^0$	(99.770±0.020) %	
Γ_4 $K^0\gamma$	(2.30 ±0.20) × 10 ⁻³	
Γ_5 $K^\pm\gamma$	(9.9 ±0.9) × 10 ⁻⁴	
Γ_6 $K\pi\pi$	< 7	× 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.

$$\begin{array}{c}
 x_5 \\
 \Gamma
 \end{array}
 \left|
 \begin{array}{cc}
 -100 & \\
 19 & -19 \\
 \hline
 & x_2 \quad x_5
 \end{array}
 \right.$$

	Mode	Rate (MeV)
Γ_2	$(K\pi)^\pm$	50.7 ± 0.9
Γ_5	$K^\pm \gamma$	0.050 ± 0.005

CONSTRAINED FIT INFORMATION

An overall fit to the total width and a partial width uses 19 measurements and one constraint to determine 3 parameters. The overall fit has a $\chi^2 = 19.7$ for 17 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.

$$\begin{array}{c}
 x_4 \\
 \Gamma
 \end{array}
 \left|
 \begin{array}{cc}
 -100 & \\
 14 & -14 \\
 \hline
 & x_3 \quad x_4
 \end{array}
 \right.$$

	Mode	Rate (MeV)	Scale factor
Γ_3	$(K\pi)^0$	50.6 ± 0.6	1.1
Γ_4	$K^0 \gamma$	0.117 ± 0.010	

$K^*(892)$ PARTIAL WIDTHS

$\Gamma(K^0 \gamma)$							Γ_4
VALUE (keV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT		
116 ± 10	OUR FIT						
116.5 ± 9.9	584	CARLSMITH	86	SPEC	0	$K_L^0 A \rightarrow K_S^0 \pi^0 A$	

$\Gamma(K^\pm \gamma)$ Γ_5

VALUE (keV)	DOCUMENT ID	TECN	CHG	COMMENT
50 ± 5 OUR FIT				
50 ± 5 OUR AVERAGE				
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

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

VALUE (units 10^{-3})	DOCUMENT ID	TECN	CHG	COMMENT
2.30 ± 0.20 OUR FIT				
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1.5 ± 0.7	CARITHERS	75B	CNTR 0	8-16 $\bar{K}^0 A$

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

VALUE (units 10^{-3})	CL%	DOCUMENT ID	TECN	CHG	COMMENT
0.99 ± 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

VALUE	CL%	DOCUMENT ID	TECN	CHG	COMMENT
<0.0007	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. • • •					
<0.002		WOJCICKI	64	HBC -	1.7 $K^- p \rightarrow \bar{K}^0 \pi^- p$

$K^*(892)$ REFERENCES

ABELE	99D	PL B468 178	A. Abele <i>et al.</i>	(Crystal Barrel 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+)
DELFOSSSE	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+)
EVANGELISTA	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 135B 484	S.G. Wojcicki	(LRL)

OTHER RELATED PAPERS

BENAYOUN	99B	PR D59 114027	M. Benayoun <i>et al.</i>	(ALBE)
KAMAL	92	PL B284 421	A.N. Kamal, Q.P. Xu	(TUFTS, ARIZ, FNAL, FLOR+)
NAPIER	84	PL 149B 514	A. Napier <i>et al.</i>	(DURH, GEVA, LAUS+)
CLELAND	82	NP B208 189	W.E. Cleland <i>et al.</i>	(LRL)
ALEXANDER	62	PRL 8 447	G. Alexander <i>et al.</i>	(LRL)
ALSTON	61	PRL 6 300	M.H. Alston <i>et al.</i>	(LRL)