

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

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

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

 **$K_2^*(1430)$  MASS****CHARGED ONLY, WITH FINAL STATE  $K\pi$** 

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
<b>1425.6 ± 1.5</b>	<b>OUR AVERAGE</b>	Error includes scale factor of 1.1.			
1420 ± 4	1587	BAUBILLIER	84B HBC	—	8.25 $K^- p \rightarrow \bar{K}^0 \pi^- p$
1436 ± 5.5	400	<sup>1,2</sup> CLELAND	82 SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
1430 ± 3.2	1500	<sup>1,2</sup> CLELAND	82 SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
1430 ± 3.2	1200	<sup>1,2</sup> CLELAND	82 SPEC	—	50 $K^+ p \rightarrow K_S^0 \pi^- p$
1423 ± 5	935	TOAFF	81 HBC	—	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
1428.0 ± 4.6		<sup>3</sup> MARTIN	78 SPEC	+	10 $K^\pm p \rightarrow K_S^0 \pi p$
1423.8 ± 4.6		<sup>3</sup> MARTIN	78 SPEC	—	10 $K^\pm p \rightarrow K_S^0 \pi p$
1420.0 ± 3.1	1400	AGUILAR-...	71B HBC	—	3.9, 4.6 $K^- p$
1425 ± 8.0	225	<sup>1,2</sup> BARNHAM	71C HBC	+	$K^+ p \rightarrow K^0 \pi^+ p$
1416 ± 10	220	CRENNELL	69D DBC	—	3.9 $K^- N \rightarrow \bar{K}^0 \pi^- N$
1414 ± 13.0	60	<sup>1</sup> LIND	69 HBC	+	9 $K^+ p \rightarrow K^0 \pi^+ p$
1427 ± 12	63	<sup>1</sup> SCHWEING...	68 HBC	—	5.5 $K^- p \rightarrow \bar{K} \pi N$
1423 ± 11.0	39	<sup>1</sup> 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 ± 2 ± 3	24809 ± 820	<sup>4</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>1432.4 ± 1.3</b>	<b>OUR AVERAGE</b>				
1431.2 ± 1.8 ± 0.7		<sup>5</sup> ASTON	88 LASS	0	11 $K^- p \rightarrow K^- \pi^+ n$
1434 ± 4 ± 6		<sup>5</sup> ASTON	87 LASS	0	11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
1433 ± 6 ± 10		<sup>5</sup> ASTON	84B LASS	0	11 $K^- p \rightarrow \bar{K}^0 2\pi n$
1471 ± 12		<sup>5</sup> BAUBILLIER	82B HBC	0	8.25 $K^- p \rightarrow NK_S^0 \pi \pi$
1428 ± 3		<sup>5</sup> ASTON	81C LASS	0	11 $K^- p \rightarrow K^- \pi^+ n$
1434 ± 2		<sup>5</sup> ESTABROOKS	78 ASPK	0	13 $K^\pm p \rightarrow p K \pi$
1440 ± 10		<sup>5</sup> BOWLER	77 DBC	0	5.5 $K^+ d \rightarrow K \pi p p$

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

1420 ± 7	300	HENDRICK	76	DBC		8.25 $K^+ N \rightarrow K^+ \pi N$
1421.6 ± 4.2	800	MCCUBBIN	75	HBC	0	3.6 $K^- p \rightarrow K^- \pi^+ n$
1420.1 ± 4.3		<sup>6</sup> LINGLIN	73	HBC	0	2-13 $K^+ p \rightarrow K^+ \pi^- X$
1419.1 ± 3.7	1800	AGUILAR-...	71B	HBC	0	3.9,4.6 $K^- p$
1416 ± 6	600	CORDS	71	DBC	0	9 $K^+ n \rightarrow K^+ \pi^- p$
1421.1 ± 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 ± 2.7 OUR FIT</b>	Error includes scale factor of 1.1.					
<b>98.5 ± 2.9 OUR AVERAGE</b>	Error includes scale factor of 1.1.					
109 ± 22	400	<sup>7,8</sup> CLELAND	82	SPEC	+	30 $K^+ p \rightarrow K_S^0 \pi^+ p$
124 ± 12.8	1500	<sup>7,8</sup> CLELAND	82	SPEC	+	50 $K^+ p \rightarrow K_S^0 \pi^+ p$
113 ± 12.8	1200	<sup>7,8</sup> CLELAND	82	SPEC	-	50 $K^+ p \rightarrow K_S^0 \pi^- p$
85 ± 16	935	TOAFF	81	HBC	-	6.5 $K^- p \rightarrow \bar{K}^0 \pi^- p$
96.5 ± 3.8		MARTIN	78	SPEC	+	10 $K^\pm p \rightarrow K_S^0 \pi p$
97.7 ± 4.0		MARTIN	78	SPEC	-	10 $K^\pm p \rightarrow K_S^0 \pi p$
94.7 <sup>+</sup> <sub>-12.5</sub> <sup>15.1</sup>	1400	AGUILAR-...	71B	HBC	-	3.9,4.6 $K^- p$

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

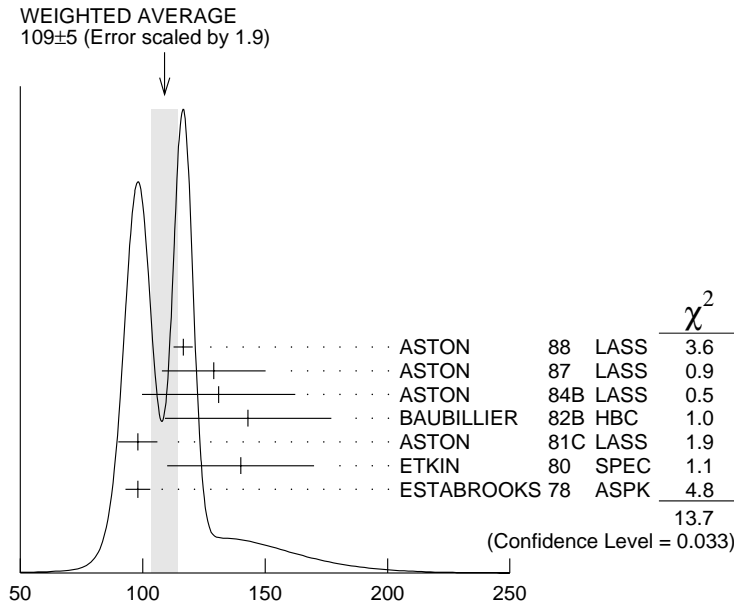
98 ± 4 ± 4	24809 ± 820	<sup>9</sup> BIRD	89	LASS	-	11 $K^- p \rightarrow \bar{K}^0 \pi^- p$
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### NEUTRAL ONLY

VALUE (MeV)	EVTs	DOCUMENT ID	TECN	CHG	COMMENT	
<b>109 ± 5 OUR AVERAGE</b>	Error includes scale factor of 1.9. See the ideogram below.					
116.5 ± 3.6 ± 1.7		<sup>10</sup> ASTON	88	LASS	0	11 $K^- p \rightarrow K^- \pi^+ n$
129 ± 15 ± 15		<sup>10</sup> ASTON	87	LASS	0	11 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
131 ± 24 ± 20		<sup>10</sup> ASTON	84B	LASS	0	11 $K^- p \rightarrow \bar{K}^0 2\pi n$
143 ± 34		<sup>10</sup> BAUBILLIER	82B	HBC	0	8.25 $K^- p \rightarrow NK_S^0 \pi \pi$
98 ± 8		<sup>10</sup> ASTON	81C	LASS	0	11 $K^- p \rightarrow K^- \pi^+ n$
140 ± 30		<sup>10</sup> ETKIN	80	SPEC	0	6 $K^- p \rightarrow \bar{K}^0 \pi^+ \pi^- n$
98 ± 5		<sup>10</sup> 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 ± 29	300	<sup>7</sup> HENDRICK	76	DBC		8.25 $K^+ N \rightarrow K^+ \pi N$
116 ± 18	800	MCCUBBIN	75	HBC	0	3.6 $K^- p \rightarrow K^- \pi^+ n$
61 ± 14		<sup>11</sup> LINGLIN	73	HBC	0	2-13 $K^+ p \rightarrow K^+ \pi^- X$
116.6 <sup>+10.3</sup> <sub>-15.5</sub>	1800	AGUILAR-...	71B	HBC	0	3.9,4.6 $K^- p$
144 ± 24.0	600	<sup>7</sup> CORDS	71	DBC	0	9 $K^+ n \rightarrow K^+ \pi^- p$
101 ± 10	2200	DAVIS	69	HBC	0	12 $K^+ p \rightarrow K^+ \pi^- \pi^+ p$



$K_2^*(1430)^0$  width (MeV)

<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

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

$\Gamma(K^0\gamma)$						$\Gamma_9$
VALUE (keV)	CL%	DOCUMENT ID	TECN	CHG	COMMENT	
<b>&lt;84</b>	90	CARLSMITH	87	SPEC	0	60-200 $K_L^0 A \rightarrow K_S^0 \pi^0 A$

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

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

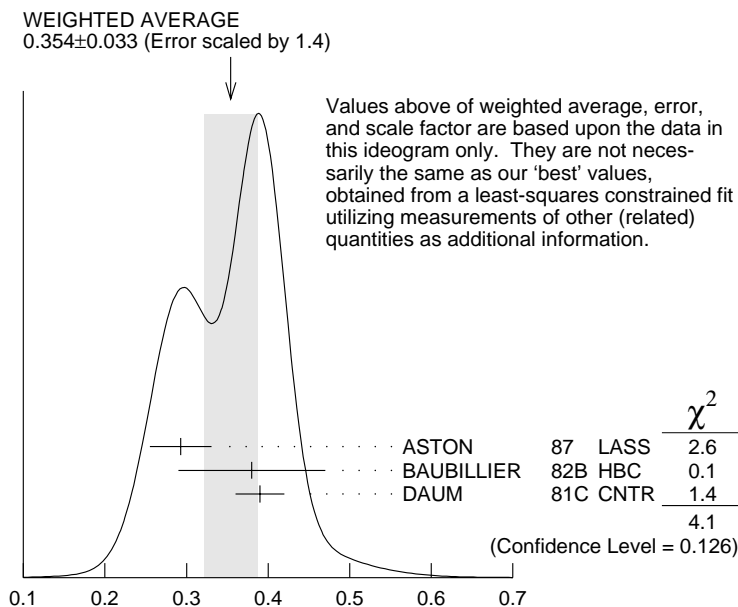
$\Gamma(K^*(892)\pi)/\Gamma(K\pi)$						$\Gamma_2/\Gamma_1$
VALUE		DOCUMENT ID	TECN	CHG	COMMENT	
<b>0.496±0.034</b>						<b>OUR FIT</b>
<b>0.47 ±0.04</b>						<b>OUR AVERAGE</b>
0.44 ±0.09		ASTON	84B	LASS	0	11 $K^- p \rightarrow \bar{K}^0 2\pi n$
0.62 ±0.19		LAUSCHER	75	HBC	0	10,16 $K^- p \rightarrow K^- \pi^+ n$
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 $K^- p$

$\Gamma(K\omega)/\Gamma(K\pi)$						$\Gamma_5/\Gamma_1$
VALUE		DOCUMENT ID	TECN	CHG	COMMENT	
<b>0.059±0.017</b>						<b>OUR FIT</b>
<b>0.070±0.035</b>						<b>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 $K^+ p$

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

$\Gamma(K\rho)/\Gamma(K^*(892)\pi)$ 
 $\Gamma_4/\Gamma_2$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
<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 $K^-p \rightarrow \bar{K}^0\pi^+\pi^-n$
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 $K^-p \rightarrow K^-2\pi p$


 $\Gamma(K\rho)/\Gamma(K^*(892)\pi)$ 
 $\Gamma(K\omega)/\Gamma(K^*(892)\pi)$ 
 $\Gamma_5/\Gamma_2$ 

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

 $\Gamma(K\eta)/\Gamma(K^*(892)\pi)$ 
 $\Gamma_7/\Gamma_2$ 

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
<b>0.006<sup>+0.014</sup><sub>-0.004</sub> OUR FIT</b>	Error includes scale factor of 1.2.			
<b>0.07 ±0.04</b>	FIELD	67	HBC	- 3.8 $K^-p$

 $\Gamma(K\eta)/\Gamma(K\pi)$ 
 $\Gamma_7/\Gamma_1$ 

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
<b>0.0030<sup>+0.0068</sup><sub>-0.0020</sub> OUR FIT</b>		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		<sup>14</sup> BASSOMPIE...	69	HBC	5.0	$K^+ p$
<0.02		BISHOP	69	HBC	3.5	$K^+ p$

### $\Gamma(K^*(892)\pi\pi)/\Gamma_{\text{total}}$ $\Gamma_3/\Gamma$

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

### $\Gamma(K^*(892)\pi\pi)/\Gamma(K\pi)$ $\Gamma_3/\Gamma_1$

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

### $\Gamma(K\omega\pi)/\Gamma_{\text{total}}$ $\Gamma_8/\Gamma$

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

<sup>12</sup> From phase shift analysis.

<sup>13</sup> 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.

<sup>14</sup> Restated by us.

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

## $K_2^*(1430)$ REFERENCES

BIRD	89	SLAC-332			(SLAC)
ASTON	88	NP B296 493	+Awaji, Bienz, Bird+		(SLAC, NAGO, CINC, INUS)
ASTON	88B	PL B201 169	+Awaji, Bienz+		(SLAC, NAGO, CINC, INUS)
ASTON	87	NP B292 693	+Awaji, D'Amore+		(SLAC, NAGO, CINC, INUS)
CARLSMITH	87	PR D36 3502	+Bernstein, Bock, Coupal, Peyaud, Turley+		(EFI, SACL)
ASTON	84B	NP B247 261	+Carnegie, Dunwoodie+		(SLAC, CARL, OTTA)
BAUBILLIER	84B	ZPHY C26 37	+		(BIRM, CERN, GLAS, MICH, CURIN)
BAUBILLIER	82B	NP B202 21	+		(BIRM, CERN, GLAS, MSU, CURIN)
CIHANGIR	82	PL 117B 123	+Berg, Biel, Chandlee+		(FNAL, MINN, ROCH)
CLELAND	82	NP B208 189	+Delfosse, Dorsaz, Gloor		(DURH, GEVA, LAUS, PITT)
ASTON	81C	PL 106B 235	+Carnegie, Dunwoodie+		(SLAC, CARL, OTTA) JP
DAUM	81C	NP B187 1	+Hertzberger+		(AMST, CERN, CRAC, MPIM, OXF+)
TOAFF	81	PR D23 1500	+Musgrave, Ammar, Davis, Ecklund+		(ANL, KANS)
ETKIN	80	PR D22 42	+Foley, Lindenbaum, Kramer+		(BNL, CUNY) JP
ESTABROOKS	78	NP B133 490	+Carnegie+		(MCGI, CARL, DURH, SLAC)
Also	78B	PR D17 658	Estabrooks, Carnegie+		(MCGI, CARL, DURH+)
JONGEJANS	78	NP B139 383	+Cerrada+		(ZEEM, CERN, NIJM, OXF)
MARTIN	78	NP B134 392	+Shimada, Baldi, Bohringer+		(DURH, GEVA)
BOWLER	77	NP B126 31	+Dainton, Drake, Williams		(OXF)
GOLDBERG	76	LNC 17 253			(HAIF)
HENDRICK	76	NP B112 189	+Vignaud, Burlaud+		(MONS, SACL, PARIS, BELG)
LAUSCHER	75	NP B86 189	+Otter, Wiczorek+		(ABCLV Collab.) JP
MCCUBBIN	75	NP B86 13	+Lyons		(OXF)

DEHM	74	NP B75 47	+Goebel, Wittek+	(MPIM, BRUX, MONS, CERN)
LINGLIN	73	NP B55 408		(CERN)
AGUILAR-...	71B	PR D4 2583	Aguilar-Benitez, Eisner, Kinson	(BNL)
BARNHAM	71C	NP B28 171	+Colley, Jobes, Griffiths, Hughes+	(BIRM, GLAS)
CORDS	71	PR D4 1974	+Carmony, Erwin, Meiere+	(PURD, UCD, IUPU)
BASSOMPIE...	69	NP B13 189	Bassompierre+	(CERN, BRUX) JP
BISHOP	69	NP B9 403	+Goshaw, Erwin, Walker	(WISC)
CRENNELL	69D	PRL 22 487	+Karshon, Lai, O'Neill, Scarr	(BNL)
DAVIS	69	PRL 23 1071	+Derenzo, Flatte, Garnjost, Lynch, Solmitz	(LRL)
LIND	69	NP B14 1	+Alexander, Firestone, Fu, Goldhaber	(LRL) JP
SCHWEING...	68	PR 166 1317	Schweingruber, Derrick, Fields+	(ANL, NWES)
Also	67	Thesis	Schweingruber	(NWES, NWES)
BASSANO	67	PRL 19 968	+Goldberg, Goz, Barnes, Leitner+	(BNL, SYRA)
FIELD	67	PL 24B 638	+Hendricks, Piccioni, Yager	(UCSD)
BADIER	65C	PL 19 612	+Demoulin, Goldberg+	(EPOL, SACL, AMST)

————— **OTHER RELATED PAPERS** —————

ATKINSON	86	ZPHY C30 521	+	(BONN, CERN, GLAS, LANC, MCHS, CURIN+)
BAUBILLIER	82B	NP B202 21	+	(BIRM, CERN, GLAS, MSU, CURIN)
CHUNG	65	PRL 15 325	+Dahl, Hardy, Hess, Jacobs, Kirz	(LRL)
FOCARDI	65	PL 16 351	+Ranzi, Serra+	(BGNA, SACL)
HAQUE	65	PL 14 338	Hague+	
HARDY	65	PRL 14 401	+Chung, Dahl, Hess, Kirz, Miller	(LRL)