

$f'_2(1525)$ $I^G(J^{PC}) = 0^+(2^{++})$ **$f'_2(1525)$ MASS**VALUE (MeV)DOCUMENT ID

1525±5 OUR ESTIMATE This is only an educated guess; the error given is larger than the error on the average of the published values.

PRODUCED BY PION BEAM

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1547 \pm 10		¹ LONGACRE 86	MPS	$22 \pi^- p \rightarrow K_S^0 K_S^0 n$
1496 \pm 9		² CHABAUD 81	ASPK	$6 \pi^- p \rightarrow K^+ K^- n$
1497 \pm 8		CHABAUD 81	ASPK	$18.4 \pi^- p \rightarrow K^+ K^- n$
1492 \pm 29		GORLICH 80	ASPK	$17 \pi^- p$ polarized $\rightarrow K^+ K^- n$
1502 \pm 25		³ CORDEN 79	OMEG	$12\text{--}15 \pi^- p \rightarrow \pi^+ \pi^- n$
1480	14	CRENNELL 66	HBC	$6.0 \pi^- p \rightarrow K_S^0 K_S^0 n$

PRODUCED BY K^\pm BEAM

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1524.5 \pm 1.4 OUR AVERAGE Includes data from the datablock that follows this one.				
Error includes scale factor of 1.1.				
1526.8 \pm 4.3		ASTON 88D LASS		$11 K^- p \rightarrow K_S^0 K_S^0 \Lambda$
1504 \pm 12		BOLONKIN 86	SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 Y$
1529 \pm 3		ARMSTRONG 83B OMEG		$18.5 K^- p \rightarrow K^- K^+ \Lambda$
1521 \pm 6	650	AGUILAR-...	81B HBC	$4.2 K^- p \rightarrow \Lambda K^+ K^-$
1521 \pm 3	572	ALHARRAN 81	HBC	$8.25 K^- p \rightarrow \Lambda K \bar{K}$
1522 \pm 6	123	BARREIRO 77	HBC	$4.15 K^- p \rightarrow \Lambda K_S^0 K_S^0$
1528 \pm 7	166	EVANGELISTA 77	OMEG	$10 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1527 \pm 3	120	BRANDENB... 76C	ASPK	$13 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
1519 \pm 7	100	AGUILAR-...	72B HBC	$3.9, 4.6 K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1513 \pm 10		⁴ BARKOV 99	SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 y$

PRODUCED IN $e^+ e^-$ ANNIHILATION

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
The data in this block is included in the average printed for a previous datablock.				
1523 \pm 4 OUR AVERAGE				Error includes scale factor of 1.2.
1523 \pm 6	331	⁵ ACCIARRI	01H L3	91, 183–209 $e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
1535 \pm 5 \pm 4		ABREU	96C DLPH	$Z^0 \rightarrow K^+ K^- + X$
1516 \pm 5 $^{+9}_{-15}$		BAI	96C BES	$J/\psi \rightarrow \gamma K^+ K^-$
1531.6 \pm 10.0		AUGUSTIN	88 DM2	$J/\psi \rightarrow \gamma K^+ K^-$
1515 \pm 5		⁶ FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$
1525 \pm 10 \pm 10		BALTRUSAIT..87	MRK3	$J/\psi \rightarrow \gamma K^+ K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1529 \pm 10		ACCIARRI	95J L3	Repl. by ACCIARRI 01H
1496 \pm 2		⁷ FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$

PRODUCED IN $\bar{p}p$ ANNIHILATION

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1508\pm9	⁸ AMSLER	02 CBAR	$0.9 \bar{p}p \rightarrow \pi^0 \eta\eta, \pi^0 \pi^0 \pi^0$

CENTRAL PRODUCTION

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1515\pm15	BARBERIS	99 OMEG	$450 \bar{p}p \rightarrow p_s p_f K^+ K^-$

¹ From a partial-wave analysis of data using a K-matrix formalism with 5 poles.² CHABAUD 81 is a reanalysis of PAWLICKI 77 data.³ From an amplitude analysis where the $f_2'(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\bar{K}$ channel, making the solution dubious.⁴ Systematic errors not estimated.⁵ Supersedes ACCIARRI 95J.⁶ From an analysis ignoring interference with $f_0(1710)$.⁷ From an analysis including interference with $f_0(1710)$.⁸ T-matrix pole.

$f'_2(1525)$ WIDTH

VALUE (MeV)	DOCUMENT ID	COMMENT
76±10 OUR ESTIMATE	This is only an educated guess; the error given is larger than the error on the average of the published values.	

 73^{+6}_{-5} OUR FIT

76±10	PDG	90 For fitting
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PRODUCED BY PION BEAM

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
108 ⁺⁵ ₋₂	⁹ LONGACRE 86	MPS	$22 \pi^- p \rightarrow K_S^0 K_S^0 n$
69 ⁺²² ₋₁₆	¹⁰ CHABAUD 81	ASPK	$6 \pi^- p \rightarrow K^+ K^- n$
137 ⁺²³ ₋₂₁	CHABAUD 81	ASPK	$18.4 \pi^- p \rightarrow K^+ K^- n$
150 ⁺⁸³ ₋₅₀	GORLICH 80	ASPK	$17 \pi^- p$ polarized $\rightarrow K^+ K^- n$
165±42	¹¹ CORDEN 79	OMEG	$12-15 \pi^- p \rightarrow \pi^+ \pi^- n$
92 ⁺³⁹ ₋₂₂	¹² POLYCHRO... 79	STRC	$7 \pi^- p \rightarrow n K_S^0 K_S^0$

PRODUCED BY K^\pm BEAM

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
79±5 OUR AVERAGE	Includes data from the datablock that follows this one.			
90±12	ASTON 88D	LASS	$11 K^- p \rightarrow K_S^0 K_S^0 \Lambda$	
73±18	BOLONKIN 86	SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 Y$	
83±15	ARMSTRONG 83B	OMEG	$18.5 K^- p \rightarrow K^- K^+ \Lambda$	
85±16	650 AGUILAR-...	81B HBC	$4.2 K^- p \rightarrow \Lambda K^+ K^-$	
80 ⁺¹⁴ ₋₁₁	572 ALHARRAN 81	HBC	$8.25 K^- p \rightarrow \Lambda K \bar{K}$	
72±25	166 EVANGELISTA 77	OMEG	$10 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$	
69±22	100 AGUILAR-...	72B HBC	$3.9, 4.6 K^- p \rightarrow K \bar{K} (\Lambda, \Sigma)$	

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

75±20	¹³ BARKOV 99	SPEC	$40 K^- p \rightarrow K_S^0 K_S^0 y$
62 ⁺¹⁹ ₋₁₄	123 BARREIRO 77	HBC	$4.15 K^- p \rightarrow \Lambda K_S^0 K_S^0$
61±8	120 BRANDENB... 76C	ASPK	$13 K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$

PRODUCED IN $e^+ e^-$ ANNIHILATION

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
The data in this block is included in the average printed for a previous datablock.				
74± 8 OUR AVERAGE				Error includes scale factor of 1.1.
100±15	331	¹⁴ ACCIARRI	01H L3	91, 183–209 $e^+ e^- \rightarrow e^+ e^- K_S^0 K_S^0$
60±20±19		ABREU	96C DLPH	$Z^0 \rightarrow K^+ K^- + X$
60±23 ⁺¹³ ₋₂₀		BAI	96C BES	$J/\psi \rightarrow \gamma K^+ K^-$
103±30		AUGUSTIN	88 DM2	$J/\psi \rightarrow \gamma K^+ K^-$
62±10	15	FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$
85±35		BALTRUSAIT..87	MRK3	$J/\psi \rightarrow \gamma K^+ K^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
76±40		ACCIARRI	95J L3	Repl. by ACCIARRI 01H
100± 3	16	FALVARD	88 DM2	$J/\psi \rightarrow \phi K^+ K^-$

PRODUCED IN $\bar{p}p$ ANNIHILATION

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
79±8	17 AMSLER	02 CBAR	0.9 $\bar{p}p \rightarrow \pi^0 \eta\eta, \pi^0 \pi^0 \pi^0$

CENTRAL PRODUCTION

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
70±25	BARBERIS	99 OMEG	450 $p p \rightarrow p_s p_f K^+ K^-$

9 From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

10 CHABAUD 81 is a reanalysis of PAWLICKI 77 data.

11 From an amplitude analysis where the $f'_2(1525)$ width and elasticity are in complete disagreement with the values obtained from $K\bar{K}$ channel, making the solution dubious.12 From a fit to the D with $f_2(1270)-f'_2(1525)$ interference. Mass fixed at 1516 MeV.

13 Systematic errors not estimated.

14 Supersedes ACCIARRI 95J.

15 From an analysis ignoring interference with $f_0(1710)$.16 From an analysis including interference with $f_0(1710)$.

17 T-matrix pole.

 $f'_2(1525)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 K\bar{K}$	(88.8 ± 3.1) %
$\Gamma_2 \eta\eta$	(10.3 ± 3.1) %
$\Gamma_3 \pi\pi$	(8.2 ± 1.5) × 10 ⁻³
$\Gamma_4 K\bar{K}^*(892) + c.c.$	
$\Gamma_5 \pi K\bar{K}$	
$\Gamma_6 \pi\pi\eta$	
$\Gamma_7 \pi^+\pi^+\pi^-\pi^-$	
$\Gamma_8 \gamma\gamma$	(1.23 ± 0.17) × 10 ⁻⁶

CONSTRAINED FIT INFORMATION

An overall fit to the total width, 2 partial widths, a combination of partial widths obtained from integrated cross sections, and 3 branching ratios uses 14 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 11.6$ for 10 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	-100			
x_3	-3	-1		
x_8	-8	8	1	
Γ	-32	32	-1 -49	
	x_1	x_2	x_3	x_8

	Mode	Rate (MeV)
Γ_1	$K\bar{K}$	65^{+5}_{-4}
Γ_2	$\eta\eta$	7.6 ± 2.5
Γ_3	$\pi\pi$	0.60 ± 0.12
Γ_8	$\gamma\gamma$	$(9.0 \pm 1.1) \times 10^{-5}$

$f'_2(1525)$ PARTIAL WIDTHS

$\Gamma(K\bar{K})$

65^{+5}_{-4} OUR FIT

63^{+6}_{-5}

18 LONGACRE 86 MPS $22 \pi^- p \rightarrow K_S^0 K_S^0 n$

Γ_1

$\Gamma(\pi\pi)$

0.60 ± 0.12 OUR FIT

$1.4^{+1.0}_{-0.5}$

18 LONGACRE 86 MPS $22 \pi^- p \rightarrow K_S^0 K_S^0 n$

Γ_3

$\Gamma(\eta\eta)$

7.6 ± 2.5 OUR FIT

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

24^{+3}_{-1}

18 LONGACRE 86 MPS $22 \pi^- p \rightarrow K_S^0 K_S^0 n$

Γ_2

18 From a partial-wave analysis of data using a K-matrix formalism with 5 poles.

$f'_2(1525)$ $\Gamma(i)\Gamma(\gamma\gamma)/\Gamma(\text{total})$

$\Gamma(K\bar{K}) \times \Gamma(\gamma\gamma)/\Gamma_{\text{total}}$				$\Gamma_1\Gamma_8/\Gamma$	
VALUE (keV)	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
0.080 ± 0.009 OUR FIT					
0.080 ± 0.009 OUR AVERAGE					
0.076 ± 0.006 ± 0.011	331	21	ACCIARRI	01H L3	91, 183–209 $e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$
0.067 ± 0.008 ± 0.015		19	ALBRECHT	90G ARG	$e^+e^- \rightarrow e^+e^- K^+K^-$
0.11 +0.03 -0.02 ± 0.02			BEHREND	89C CELL	$e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$
0.10 +0.04 -0.03 ± 0.03 -0.02			BERGER	88 PLUT	$e^+e^- \rightarrow e^+e^- K_S^0 K_S^0$
0.12 ± 0.07 ± 0.04		19	AIHARA	86B TPC	$e^+e^- \rightarrow e^+e^- K^+K^-$
0.11 ± 0.02 ± 0.04		19	ALTHOFF	83 TASS	$e^+e^- \rightarrow e^+e^- K\bar{K}$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.093 ± 0.018 ± 0.022		19	ACCIARRI	95J L3	Repl. by ACCIARRI 01H
0.0314 ± 0.0050 ± 0.0077		20	ALBRECHT	90G ARG	$e^+e^- \rightarrow e^+e^- K^+K^-$

19 Using an incoherent background.

20 Using a coherent background.

21 Supersedes ACCIARRI 95J.

 $f'_2(1525)$ BRANCHING RATIOS

$\Gamma(\eta\eta)/\Gamma(K\bar{K})$				Γ_2/Γ_1	
VALUE	CL%	DOCUMENT ID	TECN	COMMENT	
0.12 ± 0.04 OUR FIT					
0.11 ± 0.04		22	PROKOSHIN 91 GAM4	300 $\pi^- p \rightarrow \pi^- p\eta\eta$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.14	90	BARBERIS	00E	450 $p p \rightarrow p_f \eta\eta p_s$	
<0.50		BARNES	67 HBC	4.6,5.0 $K^- p$	

22 Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma\eta\eta$.

$\Gamma(\pi\pi)/\Gamma_{\text{total}}$				Γ_3/Γ	
VALUE	CL%	DOCUMENT ID	TECN	COMMENT	
0.0082 ± 0.0016 OUR FIT					
0.0075 ± 0.0016 OUR AVERAGE					
0.007 ± 0.002		COSTA...	80 OMEG	10 $\pi^- p \rightarrow K^+ K^- n$	
0.027 +0.071 -0.013		23 GORLICH	80 ASPK	17,18 $\pi^- p$	
0.0075 ± 0.0025		23,24 MARTIN	79 RVUE		

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

<0.06	95	AGUILAR-...	81B HBC	4.2 $K^- p \rightarrow \Lambda K^+ K^-$
0.19 ± 0.03		CORDEN	79 OMEG	12–15 $\pi^- p \rightarrow \pi^+ \pi^- n$
<0.045	95	BARREIRO	77 HBC	4.15 $K^- p \rightarrow \Lambda K_S^0 K_S^0$
0.012 ± 0.004	23	PAWLICKI	77 SPEC	6 $\pi N \rightarrow K^+ K^- N$
<0.063	90	BRANDENB...	76C ASPK	13 $K^- p \rightarrow K^+ K^- (\Lambda, \Sigma)$
<0.0086		23 BEUSCH	75B OSPK	8.9 $\pi^- p \rightarrow K^0 \bar{K}^0 n$

23 Assuming that the $f'_2(1525)$ is produced by an one-pion exchange production mechanism.

24 MARTIN 79 uses the PAWLICKI 77 data with different input value of the $f'_2(1525) \rightarrow K\bar{K}$ branching ratio.

$\Gamma(\pi\pi)/\Gamma(K\bar{K})$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
0.0092 ± 0.0018 OUR FIT				
0.075 ± 0.035		AUGUSTIN	87 DM2	$J/\psi \rightarrow \gamma \pi^+ \pi^-$

$\Gamma(\pi\pi\eta)/\Gamma(K\bar{K})$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.41	95	AGUILAR-...	72B HBC	3.9,4.6 $K^- p$
<0.3	67	AMMAR	67 HBC	

$[\Gamma(K\bar{K}^*(892)+c.c.) + \Gamma(\pi K\bar{K})]/\Gamma(K\bar{K})$

$(\Gamma_4+\Gamma_5)/\Gamma_1$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.35	95	AGUILAR-...	72B HBC	3.9,4.6 $K^- p$
<0.4	67	AMMAR	67 HBC	

$\Gamma(\pi^+ \pi^+ \pi^- \pi^-)/\Gamma(K\bar{K})$

Γ_7/Γ_1

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.32	95	AGUILAR-...	72B HBC	3.9,4.6 $K^- p$

$\Gamma(\eta\eta)/\Gamma_{\text{total}}$

Γ_2/Γ

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.10 ± 0.03		25 PROKOSHIN 91 GAM4	300 $\pi^- p \rightarrow \pi^- p \eta\eta$	

25 Combining results of GAM4 with those of WA76 on $K\bar{K}$ central production and results of CBAL, MRK3 and DM2 on $J/\psi \rightarrow \gamma \eta\eta$.

$f'_2(1525)$ REFERENCES

AMSLER	02	EPJ C23 29	C. Amsler <i>et al.</i>	
ACCIARRI	01H	PL B501 173	M. Acciarri <i>et al.</i>	(L3 Collab.)
BARBERIS	00E	PL B479 59	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BARBERIS	99	PL B453 305	D. Barberis <i>et al.</i>	(Omega Expt.)
BARKOV	99	JETPL 70 248	B.P. Barkov <i>et al.</i>	
		Translated from ZETFP 70 242.		
ABREU	96C	PL B379 309	P. Abreu <i>et al.</i>	(DELPHI Collab.)
BAI	96C	PRL 77 3959	J.Z. Bai <i>et al.</i>	(BES Collab.)
ACCIARRI	95J	PL B363 118	M. Acciarri <i>et al.</i>	(L3 Collab.)
PROKOSHKIN	91	SPD 36 155	Y.D. Prokoshkin	(GAM2, GAM4 Collab.)
		Translated from DANS 316 900.		
ALBRECHT	90G	ZPHY C48 183	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
PDG	90	PL B239	J.J. Hernandez <i>et al.</i>	(IFIC, BOST, CIT+)
BEHREND	89C	ZPHY C43 91	H.J. Behrend <i>et al.</i>	(CELLO Collab.)
ASTON	88D	NP B301 525	D. Aston <i>et al.</i>	(SLAC, NAGO, CINC, INUS)
AUGUSTIN	88	PRL 60 2238	J.E. Augustin <i>et al.</i>	(DM2 Collab.)
BERGER	88	ZPHY C37 329	C. Berger <i>et al.</i>	(PLUTO Collab.)
FALVARD	88	PR D38 2706	A. Falvard <i>et al.</i>	(CLER, FRAS, LALO+)
AUGUSTIN	87	ZPHY C36 369	J.E. Augustin <i>et al.</i>	(LALO, CLER, FRAS+)
BALTRUSAIT...	87	PR D35 2077	R.M. Baltrusaitis <i>et al.</i>	(Mark III Collab.)
AIHARA	86B	PRL 57 404	H. Aihara <i>et al.</i>	(TPC-2 γ Collab.)
BOLONKIN	86	SJNP 43 776	B.V. Bolonkin <i>et al.</i>	(ITEP) JP
		Translated from YAF 43 1211.		
LONGACRE	86	PL B177 223	R.S. Longacre <i>et al.</i>	(BNL, BRAN, CUNY+)
ALTHOFF	83	PL 121B 216	M. Althoff <i>et al.</i>	(TASSO Collab.)
ARMSTRONG	83B	NP B224 193	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)
AGUILAR-...	81B	ZPHY C8 313	M. Aguilar-Benitez <i>et al.</i>	(CERN, CDEF+)
ALHARRAN	81	NP B191 26	S. Al-Harran <i>et al.</i>	(BIRM, CERN, GLAS+)
CHABAUD	81	APP B12 575	V. Chabaud <i>et al.</i>	(CERN, CRAC, MPIM)
COSTA...	80	NP B175 402	G. Costa de Beauregard <i>et al.</i>	(BARI, BONN+)
GORLICH	80	NP B174 16	L. Gorlitch <i>et al.</i>	(CRAC, MPIM, CERN+)
CORDEN	79	NP B157 250	M.J. Corden <i>et al.</i>	(BIRM, RHEL, TELA+) JP
MARTIN	79	NP B158 520	A.D. Martin, E.N. Ozmutlu	(DURH)
POLYCHRO...	79	PR D19 1317	V.A. Polychronakos <i>et al.</i>	(NDAM, ANL)
BARREIRO	77	NP B121 237	F. Barreiro <i>et al.</i>	(CERN, AMST, NIJM+)
EVANGELISTA	77	NP B127 384	C. Evangelista <i>et al.</i>	(BARI, BONN, CERN+)
PAWLIKCI	77	PR D15 3196	A.J. Pawlicki <i>et al.</i>	(ANL) IJP
BRANDENB...	76C	NP B104 413	G.W. Brandenburg <i>et al.</i>	(SLAC)
BEUSCH	75B	PL 60B 101	W. Beusch <i>et al.</i>	(CERN, ETH)
AGUILAR-...	72B	PR D6 29	M. Aguilar-Benitez <i>et al.</i>	(BNL)
AMMAR	67	PRL 19 1071	R. Ammar <i>et al.</i>	(NWES, ANL) JP
BARNES	67	PRL 19 964	V.E. Barnes <i>et al.</i>	(BNL, SYRA) IJPC
CRENNELL	66	PRL 16 1025	D.J. Crennell <i>et al.</i>	(BNL) I

OTHER RELATED PAPERS

ANISOVICH	01H	EPJ A12 103	A.V. Anisovich, V.V. Anisovich, V.A. Nikonorov	
LI	01	JPG 27 807	D.-M. Li, H. Yu, Q.-X. Shen	
ALBERICO	98	PL B438 430	A. Alberico <i>et al.</i>	(Obelix Collab.)
JENNI	83	PR D27 1031	P. Jenni <i>et al.</i>	(SLAC, LBL)
ARMSTRONG	82	PL 110B 77	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)
ETKIN	82B	PR D25 1786	A. Etkin <i>et al.</i>	(BNL, CUNY, TUFTS, VAND)
ABRAMS	67B	PRL 18 620	G.S. Abrams <i>et al.</i>	(UMD)
BARNES	65	PRL 15 322	V.E. Barnes <i>et al.</i>	(BNL, SYRA)