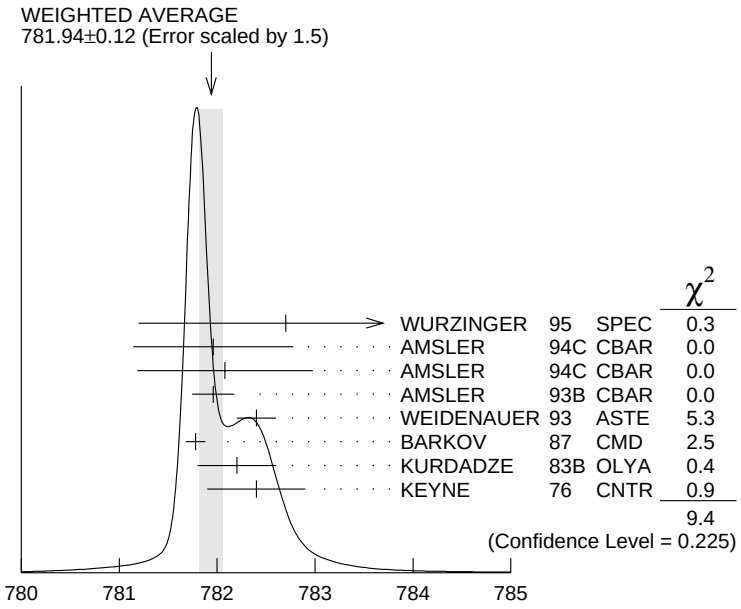
$\omega(782)$

$I^G(J^{PC}) = 0^-(1^{--})$

$\omega(782)$ MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
781.94±0.12 OUR AVERAGE		Error includes scale factor of 1.5. See the ideogram below.			
782.7 ±0.1 ±1.5	19500	WURZINGER	95	SPEC	1.33 $pd \to {}^3\mathrm{He}\omega$
781.96±0.17±0.80	11k	AMSLER	94C	CBAR	0.0 $\overline{p}p \to \omega\pi^0\pi^0$
782.08±0.36±0.82	3463	AMSLER	94C	CBAR	0.0 $\overline{p}p \to \omega\eta\pi^0$
781.96±0.13±0.17	15k	AMSLER	93B	CBAR	0.0 $\overline{p}p \to \omega\pi^0\pi^0$
782.4 ±0.2	270k	WEIDENAUER	93	ASTE	$\overline{p}p \to 2\pi^+ 2\pi^- \pi^0$
781.78±0.10		BARKOV	87	CMD	$e^+e^- \to \pi^+\pi^-\pi^0$
782.2 ±0.4	1488	KURDADZE	83B	OLYA	$e^+e^- \to \pi^+\pi^-\pi^0$
782.4 ±0.5	7000	[1] KEYNE	76	CNTR	$\pi^- p \to \omega n$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
783.3 ±0.4		CORDIER	80	WIRE	$e^+e^- \to \pi^+\pi^-\pi^0$
782.5 ±0.8	33260	ROOS	80	RVUE	0.0–3.6 $\overline{p}p$
782.6 ±0.8	3000	BENKHEIRI	79	OMEG	9–12 $\pi^\pm p$
781.8 ±0.6	1430	COOPER	78B	HBC	0.7–0.8 $\overline{p}p \to 5\pi$
782.7 ±0.9	535	VANAPEL...	78	HBC	7.2 $\overline{p}p \to \overline{p}p\omega$
783.5 ±0.8	2100	GESSAROLI	77	HBC	11 $\pi^- p \to \omega n$
782.5 ±0.8	418	AGUILAR-...	72B	HBC	3.9,4.6 $K^- p$
783.4 ±1.0	248	BIZZARRI	71	HBC	0.0 $p\overline{p} \to K^+K^-\omega$
781.0 ±0.6	510	BIZZARRI	71	HBC	0.0 $p\overline{p} \to K_1 K_1 \omega$
783.7 ±1.0	3583	[2] COYNE	71	HBC	3.7 $\pi^+ p \to p\pi^+\pi^+\pi^-\pi^0$
784.1 ±1.2	750	ABRAMOVI...	70	HBC	3.9 $\pi^- p$
783.2 ±1.6		[3] BIGGS	70B	CNTR	$<$4.1 γ C $\to \pi^+\pi^-$ C
782.4 ±0.5	2400	BIZZARRI	69	HBC	0.0 $\overline{p}p$

[1] Observed by threshold-crossing technique. Mass resolution = 4.8 MeV FWHM.
[2] From best-resolution sample of COYNE 71.
[3] From ω-ρ interference in the $\pi^+\pi^-$ mass spectrum assuming ω width 12.6 MeV.



$\omega(782)$ mass (MeV)

$\omega(782)$ WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
8.41±0.09 OUR AVERAGE					
8.2 ±0.3	19500	WURZINGER	95	SPEC	1.33 $p\,d \rightarrow {}^3\mathrm{He}\,\omega$
8.4 ±0.1		[4] AULCHENKO	87	ND	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
8.30±0.40		BARKOV	87	CMD	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
9.8 ±0.9	1488	KURDADZE	83B	OLYA	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
9.0 ±0.8		CORDIER	80	WIRE	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
9.1 ±0.8		BENAKSAS	72B	OSPK	e^+e^-
• • • We do not use the following data for averages, fits, limits, etc. • • •					
12 ±2	1430	COOPER	78B	HBC	0.7–0.8 $\overline{p}p \rightarrow 5\pi$
9.4 ±2.5	2100	GESSAROLI	77	HBC	11 $\pi^- p \rightarrow \omega n$
10.22±0.43	20000	[5] KEYNE	76	CNTR	$\pi^- p \rightarrow \omega n$
13.3 ±2	418	AGUILAR-...	72B	HBC	3.9,4.6 $K^- p$
10.5 ±1.5		BORENSTEIN	72	HBC	2.18 $K^- p$
7.70±0.9 ±1.15	940	BROWN	72	MMS	2.5 $\pi^- p \rightarrow n\mathrm{MM}$
10.3 ±1.4	510	BIZZARRI	71	HBC	0.0 $p\overline{p} \rightarrow K_1 K_1 \omega$
12.8 ±3.0	248	BIZZARRI	71	HBC	0.0 $p\overline{p} \rightarrow K^+K^-\omega$
9.5 ±1.0	3583	COYNE	71	HBC	3.7 $\pi^+ p \rightarrow p\pi^+\pi^+\pi^-\pi^0$

[4] Relativistic Breit-Wigner includes radiative corrections.
[5] Observed by threshold-crossing technique. Mass resolution = 4.8 MeV FWHM.

$\omega(782)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)	Scale factor/ Confidence level
Γ_1	$\pi^+\pi^-\pi^0$	(88.8 $\pm$0.7) %	
Γ_2	$\pi^0\gamma$	(8.5 $\pm$0.5) %	
Γ_3	$\pi^+\pi^-$	(2.21$\pm$0.30) %	
Γ_4	neutrals (excluding $\pi^0\gamma$)	(5.3 $^{+8.7}_{-3.5}$) $\times 10^{-3}$	
Γ_5	$\eta\gamma$	(6.5 $\pm$1.0) $\times 10^{-4}$	
Γ_6	$\pi^0 e^+ e^-$	(5.9 $\pm$1.9) $\times 10^{-4}$	
Γ_7	$\pi^0\mu^+\mu^-$	(9.6 $\pm$2.3) $\times 10^{-5}$	
Γ_8	$e^+ e^-$	(7.07$\pm$0.19) $\times 10^{-5}$	S=1.1
Γ_9	$\pi^+\pi^-\pi^0\pi^0$	$<$ 2 %	CL=90%
Γ_{10}	$\pi^+\pi^-\gamma$	$<$ 3.6 $\times 10^{-3}$	CL=95%
Γ_{11}	$\pi^+\pi^-\pi^+\pi^-$	$<$ 1 $\times 10^{-3}$	CL=90%
Γ_{12}	$\pi^0\pi^0\gamma$	(7.2 $\pm$2.5) $\times 10^{-5}$	
Γ_{13}	$\mu^+\mu^-$	$<$ 1.8 $\times 10^{-4}$	CL=90%
Γ_{14}	3γ	$<$ 1.9 $\times 10^{-4}$	CL=95%

Charge conjugation (C) violating modes

Γ_{15}	$\eta\pi^0$	C	$<$ 1 $\times 10^{-3}$		CL=90%
Γ_{16}	$3\pi^0$	C	$<$ 3 $\times 10^{-4}$		CL=90%

CONSTRAINED FIT INFORMATION

An overall fit to 6 branching ratios uses 20 measurements and one constraint to determine 4 parameters. The overall fit has a $\chi^2 =$ 10.3 for 17 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\langle \delta x_i \delta x_j \rangle / (\delta x_i \cdot \delta x_j)$, in percent, from the fit to 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	13		
x_3	-39	-5	
x_4	-74	-68	-1
	x_1	x_2	x_3

$\omega(782)$ PARTIAL WIDTHS

$\Gamma(e^+e^-)$ Γ_8

VALUE (keV)	*DOCUMENT ID*
0.60$\pm$0.02 OUR EVALUATION	

$\omega(782)$ BRANCHING RATIOS

$\Gamma(\text{neutrals})/\Gamma(\pi^+\pi^-\pi^0)$ $(\Gamma_2+\Gamma_4)/\Gamma_1$

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.102±0.008 OUR FIT					
$0.103^{+0.011}_{-0.010}$ OUR AVERAGE					
0.15 ±0.04	46	AGUILAR-...	72B	HBC	3.9,4.6 K^-p
0.10 ±0.03	19	BARASH	67B	HBC	0.0 $\overline{p}p$
0.134±0.026	850	DIGIUGNO	66B	CNTR	1.4 π^-p
0.097±0.016	348	FLATTE	66	HBC	1.4 – 1.7 $K^-p \rightarrow$ ΛMM
$0.06\ ^{+0.05}_{-0.02}$		JAMES	66	HBC	2.1 π^+p
0.08 ±0.03	35	KRAEMER	64	DBC	1.2 π^+d
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.11 ±0.02	20	BUSCHBECK	63	HBC	1.5 K^-p

$\Gamma(\pi^+\pi^-)/\Gamma(\pi^+\pi^-\pi^0)$ Γ_3/Γ_1

See also $\Gamma(\pi^+\pi^-)/\Gamma_{\text{total}}$.

VALUE	DOCUMENT ID		TECN	COMMENT
0.0249±0.0035 OUR FIT				
0.026 ±0.005 OUR AVERAGE				
$0.021\ ^{+0.028}_{-0.009}$	[6] RATCLIFF	72	ASPK	15 $\pi^-p \rightarrow n2\pi$
0.028 ±0.006	BEHREND	71	ASPK	Photoproduction
$0.022\ ^{+0.009}_{-0.01}$	[7] ROOS	70	RVUE	

[6] Significant interference effect observed. NB of $\omega \rightarrow 3\pi$ comes from an extrapolation.
[7] ROOS 70 combines ABRAMOVICH 70 and BIZZARRI 70.

$\Gamma(\pi^0\gamma)/\Gamma(\pi^+\pi^-\pi^0)$ Γ_2/Γ_1

VALUE	DOCUMENT ID		TECN	COMMENT
0.096±0.006 OUR FIT				
0.096±0.006 OUR AVERAGE				
0.099±0.007	DOLINSKY	89	ND	$e^+e^- \rightarrow \pi^0\gamma$
0.084±0.013	KEYNE	76	CNTR	$\pi^-p \rightarrow \omega n$
0.109±0.025	BENAKSAS	72C	OSPK	e^+e^-
0.081±0.020	BALDIN	71	HLBC	2.9 π^+p
0.13 ±0.04	JACQUET	69B	HLBC	

$\Gamma(\pi^+\pi^-\gamma)/\Gamma(\pi^+\pi^-\pi^0)$ Γ_{10}/Γ_1

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.066	90	KALBFLEISCH	75	HBC	2.18 $K^-p \rightarrow$ $\Lambda\pi^+\pi^-\gamma$
<0.05	90	FLATTE	66	HBC	1.2 – 1.7 $K^-p \rightarrow$ $\Lambda\pi^+\pi^-\gamma$

$\Gamma(\pi^+\pi^-\gamma)/\Gamma_{total}$ Γ_{10}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0036	95	WEIDENAUER	90	ASTE	$p\overline{p} \to \pi^+\pi^-\pi^+\pi^-\gamma$

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

<0.004	95	BITYUKOV	88B	SPEC	32 $\pi^- p \to \pi^+\pi^-\gamma$X

$\Gamma(\pi^+\pi^-\pi^+\pi^-)/\Gamma_{total}$ Γ_{11}/Γ

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1\times10^{-3}$	90	KURDADZE	88	OLYA	$e^+e^- \to \pi^+\pi^-\pi^+\pi^-$

$\Gamma(\pi^+\pi^-\pi^0\pi^0)/\Gamma_{total}$ Γ_9/Γ

VALUE (units 10^{-2})	CL%	DOCUMENT ID		TECN	COMMENT
<2	90	KURDADZE	86	OLYA	$e^+e^- \to \pi^+\pi^-\pi^0\pi^0$

$\Gamma(\mu^+\mu^-)/\Gamma(\pi^+\pi^-\pi^0)$ Γ_{13}/Γ_1

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<0.2	90	WILSON	69	OSPK	12 π^- C $\to$ Fe

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

<1.7	74	FLATTE	66	HBC	1.2 – 1.7 $K^- p \to \Lambda\mu^+\mu^-$
<1.2		BARBARO-...	65	HBC	2.7 $K^- p$

$\Gamma(\pi^0\pi^0\gamma)/\Gamma(\pi^0\gamma)$ Γ_{12}/Γ_2

VALUE	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
0.00085±0.00029		40 ± 14	ALDE	94B	GAM2	$38\pi^- p \to \pi^0\pi^0\gamma n$

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

< 0.005	90	DOLINSKY	89	ND	$e^+e^- \to \pi^0\pi^0\gamma$
< 0.18	95	KEYNE	76	CNTR	$\pi^- p \to \omega n$
< 0.15	90	BENAKSAS	72C	OSPK	e^+e^-
< 0.14		BALDIN	71	HLBC	2.9 $\pi^+ p$
< 0.1	90	BARMIN	64	HLBC	1.3–2.8 $\pi^- p$

$\Gamma(\eta\pi^0)/\Gamma_{total}$ Γ_{15}/Γ

Violates C conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.001	90	ALDE	94B	GAM2	$38\pi^- p \to \eta\pi^0 n$

$[\Gamma(\eta\gamma)+\Gamma(\eta\pi^0)]/\Gamma(\pi^+\pi^-\pi^0)$ $(\Gamma_5+\Gamma_{15})/\Gamma_1$

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.016	90	[8] FLATTE	66	HBC	1.2 – 1.7 $K^- p \to \Lambda\pi^+\pi^-$ MM

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

<0.045	95	JACQUET	69B	HLBC	

[8] Restated by us using B($\eta \to$ charged modes) = 29.2%.

$\Gamma(\text{neutrals})/\Gamma(\text{charged particles})$ $(\Gamma_2+\Gamma_4)/(\Gamma_1+\Gamma_3)$

VALUE	DOCUMENT ID		TECN	COMMENT
0.099±0.008 OUR FIT				
0.124±0.021	FELDMAN	67C	OSPK	1.2 $\pi^- p$

$\Gamma(\pi^0\pi^0\gamma)/\Gamma(\pi^+\pi^-\pi^0)$ Γ_{12}/Γ_1

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.00045	90	DOLINSKY	89	ND	$e^+e^- \to \pi^0\pi^0\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.08	95	JACQUET	69B	HLBC	

$\Gamma(\eta\gamma)/\Gamma(\pi^0\gamma)$ Γ_5/Γ_2

VALUE	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.0098±0.0024	[9] ALDE	93	GAM2	$38\pi^- p \to \omega n$
0.0082±0.0033	[10] DOLINSKY	89	ND	$e^+e^- \to \eta\gamma$
0.010 ±0.045	APEL	72B	OSPK	4–8 $\pi^- p \to n3\gamma$

[9] Model independent determination.
[10] Solution corresponding to constructive ω-ρ interference.

$\Gamma(\pi^0\mu^+\mu^-)/\Gamma_{\text{total}}$ Γ_7/Γ

VALUE (units 10^{-4})	DOCUMENT ID		TECN	COMMENT
0.96±0.23	DZHELYADIN	81B	CNTR	25–33 $\pi^- p \to \omega n$

$\Gamma(\pi^0 e^+ e^-)/\Gamma_{\text{total}}$ Γ_6/Γ

VALUE (units 10^{-4})	EVTS	DOCUMENT ID		TECN	COMMENT
5.9±1.9	43	DOLINSKY	88	ND	$e^+e^- \to \pi^0 e^+e^-$

$\Gamma(e^+e^-)/\Gamma_{\text{total}}$ Γ_8/Γ

VALUE (units 10^{-4})	EVTS	DOCUMENT ID		TECN	COMMENT
0.707±0.019 OUR AVERAGE		Error includes scale factor of 1.1.			
0.714±0.036		DOLINSKY	89	ND	$e^+e^- \to \pi^+\pi^-\pi^0$
0.72 ±0.03		BARKOV	87	CMD	$e^+e^- \to \pi^+\pi^-\pi^0$
0.64 ±0.04	1488	KURDADZE	83B	OLYA	$e^+e^- \to \pi^+\pi^-\pi^0$
0.675±0.069		CORDIER	80	WIRE	$e^+e^- \to 3\pi$
0.83 ±0.10		BENAKSAS	72B	OSPK	$e^+e^- \to 3\pi$
0.77 ±0.06		[11] AUGUSTIN	69D	OSPK	$e^+e^- \to 2\pi$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.65 ±0.13	33	[12] ASTVACAT...	68	OSPK	Assume SU(3)+mixing

[11] Rescaled by us to correspond to ω width 8.4 MeV.
[12] Not resolved from ρ decay. Error statistical only.

$\Gamma(\text{neutrals})/\Gamma_{\text{total}}$ $(\Gamma_2+\Gamma_4)/\Gamma$

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.090±0.006 OUR FIT					
0.081±0.011 OUR AVERAGE					
0.075±0.025		BIZZARRI	71	HBC	0.0 $p\overline{p}$
0.079±0.019		DEINET	69B	OSPK	1.5 $\pi^- p$
0.084±0.015		BOLLINI	68C	CNTR	2.1 $\pi^- p$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.073±0.018	42	BASILE	72B	CNTR	1.67 $\pi^- p$

$\Gamma(\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_3/Γ

See also $\Gamma(\pi^+\pi^-)/\Gamma(\pi^+\pi^-\pi^0)$.

VALUE	DOCUMENT ID		TECN	COMMENT
0.0221±0.0030 OUR FIT				
0.021 ±0.004 OUR AVERAGE				
0.023 ±0.005	BARKOV	85	OLYA	e^+e^-
$0.016\ ^{+0.009}_{-0.007}$	QUENZER	78	CNTR	e^+e^-
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.023 ±0.004	[13] BENAYOUN	98	RVUE	$e^+e^- \to \pi^+\pi^-$, $\mu^+\mu^-$
0.010 ±0.001	[14] WICKLUND	78	ASPK	3,4,6 $\pi^\pm N$
0.0122±0.0030	ALVENSLEB...	71C	CNTR	Photoproduction
$0.013\ ^{+0.012}_{-0.009}$	MOFFEIT	71	HBC	2.8,4.7 γp
$0.0080^{+0.0028}_{-0.002}$	[15] BIGGS	70B	CNTR	4.2γ C $\to \pi^+\pi^-$ C

[13] Not independent of BARKOV 85.

[14] From a model-dependent analysis assuming complete coherence.

[15] Re-evaluated under $\Gamma(\pi^+\pi^-)/\Gamma(\pi^+\pi^-\pi^0)$ by BEHREND 71 using more accurate $\omega \to \rho$ photoproduction cross-section ratio.

$\Gamma(\pi^0\pi^0\gamma)/\Gamma(\text{neutrals})$ $\Gamma_{12}/(\Gamma_2+\Gamma_4)$

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.22±0.07		[16] DAKIN	72	OSPK	1.4 $\pi^- p \to n$MM
<0.19	90	DEINET	69B	OSPK	

[16] See $\Gamma(\pi^0\gamma)/\Gamma(\text{neutrals})$.

$\Gamma(\pi^0\gamma)/\Gamma(\text{neutrals})$ $\Gamma_2/(\Gamma_2+\Gamma_4)$

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.78±0.07		[17] DAKIN	72	OSPK	1.4 $\pi^- p \to n$MM
>0.81	90	DEINET	69B	OSPK	

[17] Error statistical only. Authors obtain good fit also assuming $\pi^0\gamma$ as the only neutral decay.

$\Gamma(\eta\gamma)/\Gamma_{\text{total}}$ Γ_5/Γ

VALUE (units 10^{-4})	EVTS	DOCUMENT ID		TECN	COMMENT
6.5 ±1.0 OUR AVERAGE					
6.6 ±1.7		ABELE	97E	CBAR	0.0 $\overline{p}p \rightarrow 5\gamma$
8.3 ±2.1		ALDE	93	GAM2	38$\pi^- p \rightarrow \omega n$
7.3 ±2.9		[18] DOLINSKY	89	ND	$e^+e^- \rightarrow \eta\gamma$
3.0 $^{+2.5}_{-1.8}$		[18] ANDREWS	77	CNTR	6.7–10 γ Cu
• • • We do not use the following data for averages, fits, limits, etc. • • •					
6.56$^{+2.41}_{-2.55}$	3525	[18,19] BENAYOUN	96	RVUE	$e^+e^- \rightarrow \eta\gamma$

[18] Solution corresponding to constructive ω-ρ interference.
[19] Reanalysis of DRUZHININ 84, DOLINSKY 89, DOLINSKY 91 taking into account the triangle anomaly contributions.

$\Gamma(\pi^0\mu^+\mu^-)/\Gamma(\mu^+\mu^-)$ Γ_7/Γ_{13}

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
1.2±0.6	30	[20] DZHELYADIN	79	CNTR	25–33 $\pi^- p$

[20] Superseded by DZHELYADIN 81B result above.

$\Gamma(\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$ Γ_1/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
0.8942±0.0062	DOLINSKY	89	ND	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$

$\Gamma(3\pi^0)/\Gamma_{\text{total}}$ Γ_{16}/Γ

Violates C conservation.

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0003	90	PROKOSHKIN	95	GAM2	38 $\pi^- p \rightarrow 3\pi^0 n$

$\Gamma(3\gamma)/\Gamma_{\text{total}}$ Γ_{14}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<1.9	95	[21] ABELE	97E	CBAR	0.0 $\overline{p}p \rightarrow 5\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<2	90	[21] PROKOSHKIN	95	GAM2	38 $\pi^- p \rightarrow 3\gamma n$

[21] From direct 3γ decay search.

$\Gamma(\pi^0\gamma)/\Gamma_{\text{total}}$ Γ_2/Γ

VALUE (units 10^{-2})	EVTS	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
8.39±0.24	9975	[22] BENAYOUN	96	RVUE	$e^+e^- \rightarrow \pi^0\gamma$

[22] Reanalysis of DRUZHININ 84, DOLINSKY 89, DOLINSKY 91 taking into account the triangle anomaly contributions.

$\omega(782)$ REFERENCES

BENAYOUN	98	EPJ C2 269	M. Benayoun+ (IPNP, NOVO, ADLD, KNTY)
ABELE	97E	PL B411 361	A. Abele+ (Crystal Barrel Collab.)
BENAYOUN	96	ZPHY C72 221	M. Benayoun+ (IPNP, NOVO)
PROKOSHKIN	95	SPD 342 273	+Samoilenko (SERP)
		Translated from DANS 342 610.	
WURZINGER	95	PR C51 443	+Siebert+ (BONN, ORSAY, SACL, LOUC, CRAC)
ALDE	94B	PL B340 122	+Binon, Boutemeur+ (SERP, BELG, LANL, LAPP, MONT)
AMSLER	94C	PL B327 425	+Armstrong, Ravndal+ (Crystal Barrel Collab.)
ALDE	93	PAN 56 1229	+Binon+ (SERP, LAPP, LANL, BELG, BRUX, CERN)
		Translated from YAF 56 137.	
Also	94	ZPHY C61 35	Alde, Binon+ (SERP, LAPP, LANL, BELG, BRUX, CERN)
AMSLER	93B	PL B311 362	+Armstrong, v.Dombrowski+ (Crystal Barrel Collab.)
WEIDENAUER	93	ZPHY C59 387	+Duch+ (ASTERIX Collab.)
DOLINSKY	91	PRPL 202 99	+Druzhinin, Dubrovin+ (NOVO)
WEIDENAUER	90	ZPHY C47 353	+Duch, Heel, Kalinowsky+ (ASTERIX Collab.)
DOLINSKY	89	ZPHY C42 511	+Druzhinin, Dubrovin, Golubev+ (NOVO)
BITYUKOV	88B	SJNP 47 800	+Borisov, Viktorov, Golovkin+ (SERP)
		Translated from YAF 47 1258.	
DOLINSKY	88	SJNP 48 277	+Druzhinin, Dubrovin, Golubev+ (NOVO)
		Translated from YAF 48 442.	
KURDADZE	88	JETPL 47 512	+Leltchouk, Pakhtusova, Sidorov+ (NOVO)
		Translated from ZETFP 47 432.	
AULCHENKO	87	PL B186 432	+Dolinsky, Druzhinin, Dubrovin+ (NOVO)
BARKOV	87	JETPL 46 164	+Vasserman, Vorobev, Ivanov (NOVO)
		Translated from ZETFP 46 132.	
KURDADZE	86	JETPL 43 643	+Lelchuk, Pakhtusova, Sidorov, Skrinskii+ (NOVO)
		Translated from ZETFP 43 497.	
BARKOV	85	NP B256 365	+Chilingarov, Eidelman, Khazin, Lelchuk+ (NOVO)
DRUZHININ	84	PL 144B 136	+Golubev, Ivanchenko, Peryshkin+ (NOVO)
KURDADZE	83B	JETPL 36 274	+Pakhtusova, Sidorov+ (NOVO)
		Translated from ZETFP 36 221.	
DZHELYADIN	81B	PL 102B 296	+Golovkin, Konstantinov+ (SERP)
CORDIER	80	NP B172 13	+Delcourt, Eschstruth, Fulda+ (LALO)
ROOS	80	LNC 27 321	+Pellinen (HELS)
BENKHEIRI	79	NP B150 268	+Eisenstein+ (EPOL, CERN, CDEF, LALO)
DZHELYADIN	79	PL 84B 143	+Golovkin, Gritsuk+ (SERP)
COOPER	78B	NP B146 1	+Ganguli+ (TATA, CERN, CDEF, MADR)
QUENZER	78	PL 76B 512	+Ribes, Rumpf, Bertrand, Bizot, Chase+ (LALO)
VANAPEL...	78	NP B133 245	VanApeldoorn, Grundeman, Harting+ (ZEEM)
WICKLUND	78	PR D17 1197	+Ayres, Diebold, Greene, Kramer, Pawlicki (ANL)
ANDREWS	77	PRL 38 198	+Fukushima, Harvey, Lobkowicz, May+ (ROCH)
GESSAROLI	77	NP B126 382	+ (BGNA, FIRZ, GENO, MILA, OXF, PAVI)
KEYNE	76	PR D14 28	+Binnie, Carr, Debenham, Garbutt+ (LOIC, SHMP)
Also	73B	PR D8 2789	Binnie, Carr, Debenham, Duane+ (LOIC, SHMP)
KALBFLEISCH	75	PR D11 987	+Strand, Chapman (BNL, MICH)
AGUILAR-...	72B	PR D6 29	Aguilar-Benitez, Chung, Eisner, Samios (BNL)
APEL	72B	PL 41B 234	+Auslander, Muller, Bertolucci+ (KARLK, KARLE, PISA)
BASILE	72B	Phil. Conf. 153	+Bollini, Broglin, Dalpiaz, Frabetti+ (CERN)
BENAKSAS	72B	PL 42B 507	+Cosme, Jean-Marie, Jullian (ORSAY)
BENAKSAS	72C	PL 42B 511	+Cosme, Jean-Marie, Jullian, Laplanche+ (ORSAY)
BORENSTEIN	72	PR D5 1559	+Danburg, Kalbfleisch+ (BNL, MICH)
BROWN	72	PL 42B 117	+Downing, Holloway, Huld, Bernstein+ (ILL, ILLC)
DAKIN	72	PR D6 2321	+Hauser, Kreisler, Mischke (PRIN)
RATCLIFF	72	PL 38B 345	+Bulos, Carnegie, Kluge, Leith, Lynch+ (SLAC)
ALVENSLEB...	71C	PRL 27 888	Alvensleben, Becker, Busza, Chen, Cohen+ (DESY)
BALDIN	71	SJNP 13 758	+Yergakov, Trebukhovsky, Shishov (ITEP)
		Translated from YAF 13 1318.	

BEHREND	71	PRL 27 61	+Lee, Nordberg, Wehmann+	(ROCH, CORN, FNAL)
BIZZARRI	71	NP B27 140	+Montanet, Nilsson, D'Andlau+	(CERN, CDEF)
COYNE	71	NP B32 333	+Butler, Fang-Landau, MacNaughton	(LRL)
MOFFEIT	71	NP B29 349	+Bingham, Fretter+	(LRL, UCB, SLAC, TUFTS)
ABRAMOVI...	70	NP B20 209	Abramovich, Blumenfeld, Bruyant+	(CERN)
BIGGS	70B	PRL 24 1201	+Clifft, Gabathuler, Kitching, Rand	(DARE)
BIZZARRI	70	PRL 25 1385	+Ciapetti, Dore, Gaspero, Guidoni+	(ROMA, SYRA)
ROOS	70	DNPL/R7 173		(CERN)
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AUGUSTIN	69D	PL 28B 513	+Benaksas, Buon, Gracco, Haissinski+	(ORSAY)
BIZZARRI	69	NP B14 169	+Foster, Gavillet, Montanet+	(CERN, CDEF)
DEINET	69B	PL 30B 426	+Menzione, Muller, Buniatov+	(KARL, CERN)
JACQUET	69B	NC 63A 743	+Nguyen-Khac, Haatuft, Halsteinslid	(EPOL, BERG)
WILSON	69	Private Comm.		(HARV)
Also	69	PR 178 2095	Wehmann+	(HARV, CASE, SLAC, CORN, MCGI)
ASTVACAT...	68	PL 27B 45	Astvacaturov, Azimov, Baldin+	(JINR, MOSU)
BOLLINI	68C	NC 56A 531	+Buhler, Dalpiaz, Massam+	(CERN, BGNA, STRB)
BARASH	67B	PR 156 1399	+Kirsch, Miller, Tan	(COLU)
FELDMAN	67C	PR 159 1219	+Frati, Gleeson, Halpern, Nussbaum+	(PENN)
DIGIUGNO	66B	NC 44A 1272	+Peruzzi, Troise+	(NAPL, FRAS, TRST)
FLATTE	66	PR 145 1050	+Huwe, Murray, Button-Shafer, Solmitz+	(LRL)
JAMES	66	PR 142 896	+Kraybill	(YALE, BNL)
BARBARO-...	65	PRL 14 279	Barbaro-Galtieri, Tripp	(LRL)
BARMIN	64	JETP 18 1289	+Dolgolenko, Krestnikov+	(ITEP)
		Translated from ZETF 45 1879.		
KRAEMER	64	PR 136B 496	+Madansky, Fields+	(JHU, NWES, WOOD)
BUSCHBECK	63	Siena Conf. 1 166	+Czapp+	(VIEN, CERN, ANIK)

OTHER RELATED PAPERS

ABELE	97F	PL B411 354	A. Abele+	(Crystal Barrel Collab.)
DOLINSKY	86	PL B174 453	+Druzhinin, Dubrovin, Eidelman+	(NOVO)
KURDADZE	83	JETPL 37 733	+Lelchuk, Pakhtusova+	(NOVO)
		Translated from ZETFP 37 613.		
ALFF-...	62B	PRL 9 325	Alff-Steinberger, Berley, Colley+	(COLU, RUTG)
STEVENSON	62	PR 125 687	+Alvarez, Maglich, Rosenfeld	(LRL)
MAGLICH	61	PRL 7 178	+Alvarez, Rosenfeld, Stevenson	(LRL)
PEVSNER	61	PRL 7 421	+Kraemer, Nussbaum, Richardson+	(JHU)
XUONG	61	PRL 7 327	+Lynch	(LRL)