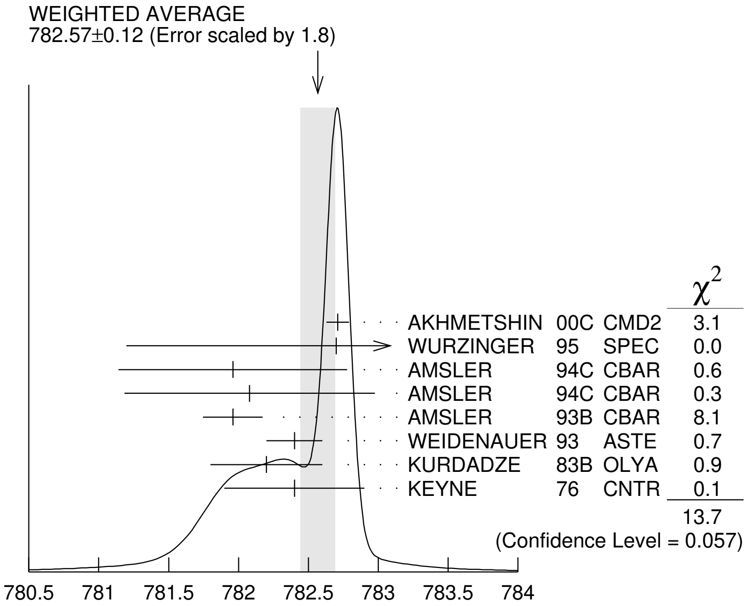
$\omega(782)$

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

ω(782) MASS

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
782.57±0.12 OUR AVERAGE		Error includes scale factor of 1.8. See the ideogram below.			
782.71±0.07±0.04	11200	AKHMETSHIN	00C	CMD2	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
782.7 ±0.1 ±1.5	19500	WURZINGER	95	SPEC	1.33 $pd \rightarrow {}^3\text{He}\omega$
781.96±0.17±0.80	11k	AMSLER	94C	CBAR	0.0 $\overline{p}p \rightarrow \omega\pi^0\pi^0$
782.08±0.36±0.82	3463	AMSLER	94C	CBAR	0.0 $\overline{p}p \rightarrow \omega\eta\pi^0$
781.96±0.13±0.17	15k	AMSLER	93B	CBAR	0.0 $\overline{p}p \rightarrow \omega\pi^0\pi^0$
782.4 ±0.2	270k	WEIDENAUER	93	ASTE	$\overline{p}p \rightarrow 2\pi^+2\pi^-\pi^0$
782.2 ±0.4	1488	KURDADZE	83B	OLYA	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
782.4 ±0.5	7000	[1] KEYNE	76	CNTR	$\pi^-p \rightarrow \omega n$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
781.78±0.10		[2] BARKOV	87	CMD	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
783.3 ±0.4		CORDIER	80	WIRE	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
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 $\overline{p}p \rightarrow 5\pi$
782.7 ±0.9	535	VANAPEL...	78	HBC	7.2 $\overline{p}p \rightarrow \overline{p}p\omega$
783.5 ±0.8	2100	GESSAROLI	77	HBC	11 $\pi^-p \rightarrow \omega n$
782.5 ±0.8	418	AGUILAR-...	72B	HBC	3.9,4.6 K^-p
783.4 ±1.0	248	BIZZARRI	71	HBC	0.0 $p\overline{p} \rightarrow K^+K^-\omega$
781.0 ±0.6	510	BIZZARRI	71	HBC	0.0 $p\overline{p} \rightarrow K_1K_1\omega$
783.7 ±1.0	3583	[3] COYNE	71	HBC	3.7 $\pi^+p \rightarrow p\pi^+\pi^+\pi^-\pi^0$
784.1 ±1.2	750	ABRAMOVI...	70	HBC	3.9 π^-p
783.2 ±1.6		[4] BIGGS	70B	CNTR	<4.1 $\gamma\text{C} \rightarrow \pi^+\pi^-\text{C}$
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] Systematic uncertainties underestimated. Superseded by AKHMETSHIN 00C.
[3] From best-resolution sample of COYNE 71.
[4] From ω-ρ interference in the $\pi^+\pi^-$ mass spectrum assuming ω width 12.6 MeV.



$\omega(782)$ mass (MeV)

ω(782) WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
8.44±0.09 OUR AVERAGE					
8.68±0.23±0.10	11200	AKHMETSHIN	00C	CMD2	$e^+e^- \rightarrow \pi^+\pi^-\pi^0$
8.2 ±0.3	19500	WURZINGER	95	SPEC	1.33 $pd \rightarrow {}^3\mathrm{He}\omega$
8.4 ±0.1		[5] 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	[6] 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 $\pi^- p \rightarrow n MM$
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 $\pi^+ p \rightarrow p\pi^+\pi^+\pi^-\pi^0$

[5] Relativistic Breit-Wigner includes radiative corrections.
[6] 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 ± 0.7) %	
Γ_2	$\pi^0\gamma$		(8.5 ± 0.5) %	
Γ_3	$\pi^+\pi^-$		(2.21 ± 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 $\left\langle\delta x_i \delta x_j\right\rangle/(\delta x_i \cdot \delta x_j)$, in percent, from the fit to the branching fractions, $x_i \equiv \Gamma_i/\Gamma_{\rm total}$. 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)	EVTS	DOCUMENT ID		TECN	COMMENT
0.60 ±0.02 OUR EVALUATION					
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.595±0.014±0.009	11200	[7] AKHMETSHIN	00C	CMD2	$e^+e^- \to \pi^+\pi^-\pi^0$

[7] Using B($\omega \to \pi^+\pi^-\pi^0$) = 0.888 ± 0.007.

$\omega(782)$ $\Gamma(i)\Gamma(e^+e^-)/\Gamma(\text{total})$

$\Gamma(e^+e^-) \times \Gamma(\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$ — $\Gamma_8\Gamma_1/\Gamma$

VALUE (keV)	EVTS	DOCUMENT ID		TECN	COMMENT
0.528±0.012±0.007	11200	AKHMETSHIN	00C	CMD2	$e^+e^- \to \pi^+\pi^-\pi^0$

$\omega(782)$ 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 $K^-p \to \Lambda MM$
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 $^{+0.028}_{-0.009}$	[8] RATCLIFF	72	ASPK	15 $\pi^-p \to n2\pi$
0.028 ±0.006	BEHREND	71	ASPK	Photoproduction
0.022 $^{+0.009}_{-0.01}$	[9] ROOS	70	RVUE	

[8] Significant interference effect observed. NB of $\omega \to 3\pi$ comes from an extrapolation.
[9] 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 $\pi^+ p$
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 $K^- p \rightarrow \Lambda\pi^+\pi^-\gamma$

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
<0.0036	95	WEIDENAUER	90	ASTE	$p\overline{p} \rightarrow \pi^+\pi^-\pi^+\pi^-\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.004	95	BITYUKOV	88B	SPEC	32 $\pi^- p \rightarrow \pi^+\pi^-\gamma X$

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

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
$<1 \times 10^{-3}$	90	KURDADZE	88	OLYA	$e^+e^- \rightarrow \pi^+\pi^-\pi^+\pi^-$

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

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

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

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<0.2	90	WILSON	69	OSPK	12 π^- C $\rightarrow$ Fe
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<1.7	74	FLATTE	66	HBC	1.2 – 1.7 $K^- p \rightarrow \Lambda\mu^+\mu^-$
<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	$38\pi^- p \rightarrow \pi^0\pi^0\gamma n$

• • • 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	[10] 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	

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

Γ(neutrals)/Γ(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	[11] ALDE	93	GAM2	$38\pi^- p \to \omega n$
0.0082±0.0033	[12] DOLINSKY	89	ND	$e^+e^- \to \eta\gamma$
0.010 ±0.045	APEL	72B	OSPK	4–8 $\pi^- p \to n3\gamma$

[11] Model independent determination.
[12] Solution corresponding to constructive ω-ρ interference.

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

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

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

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

$\Gamma(e^+e^-)/\Gamma_{total}$ — 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		[13] AUGUSTIN	69D	OSPK	$e^+e^- \to 2\pi$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.685±0.016	11200	[14] AKHMETSHIN	00C	CMD2	$e^+e^- \to \pi^+\pi^-\pi^0$
0.65 ±0.13	33	[15] ASTVACAT...	68	OSPK	Assume SU(3)+mixing

[13] Rescaled by us to correspond to ω width 8.4 MeV.
[14] Using B($\omega \to \pi^+\pi^-\pi^0$)=0.888 ± 0.007.
[15] Not resolved from ρ decay. Error statistical only.

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

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 $\pi^- p$

$\Gamma(\pi^+\pi^-)/\Gamma_{total}$ — 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. • • •				
0.019 ±0.003	[16] GARDNER	99	RVUE	$e^+e^- \to \pi^+\pi^-$
0.023 ±0.004	[17] BENAYOUN	98	RVUE	$e^+e^- \to \pi^+\pi^-$, $\mu^+\mu^-$
0.010 ±0.001	[18] 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
$0.0080^{+0.0028}_{-0.002}$	[19] BIGGS	70B	CNTR	$4.2\gamma\text{C} \to \pi^+\pi^-\text{C}$

[16] Using the data of BARKOV 85.
[17] Using the data of BARKOV 85 in the hidden local symmetry model.
[18] From a model-dependent analysis assuming complete coherence.
[19] 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		[20] DAKIN	72	OSPK	$1.4\ \pi^- p \to n$MM
<0.19	90	DEINET	69B	OSPK	

[20] 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		[21] DAKIN	72	OSPK	$1.4\ \pi^- p \to n$MM
>0.81	90	DEINET	69B	OSPK	

[21] 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					
$6.6\ \pm1.7$		[22] ABELE	97E	CBAR	$0.0\ \overline{p}p \to 5\gamma$
$8.3\ \pm2.1$		ALDE	93	GAM2	$38\pi^- p \to \omega n$
$7.3\ \pm2.9$		[23] DOLINSKY	89	ND	$e^+e^- \to \eta\gamma$
$3.0\ ^{+2.5}_{-1.8}$		[23] ANDREWS	77	CNTR	6.7–10 γCu
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.7 to 5.5		[24] CASE	00	CBAR	$0.0\ p\overline{p} \to \eta\eta\gamma$
$6.56^{+2.41}_{-2.55}$	3525	[23,25] BENAYOUN	96	RVUE	$e^+e^- \to \eta\gamma$

[22] No flat $\eta\eta\gamma$ background assumed.
[23] Solution corresponding to constructive ω-ρ interference.
[24] Depending on the degree of coherence with the flat $\eta\eta\gamma$ background and using B($\omega \to \pi^0\gamma$)=$(8.5 \pm 0.5)\times 10^{-2}$.
[25] 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	[26] DZHELYADIN	79	CNTR	25–33 $\pi^- p$

[26] Superseded by DZHELYADIN 81B result above.

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

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.8942±0.0062		DOLINSKY	89	ND	$e^+e^- \to \pi^+\pi^-\pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$0.880\ \pm0.020\ \pm0.032$	11200	[27] AKHMETSHIN	00C	CMD2	$e^+e^- \to \pi^+\pi^-\pi^0$

[27] Using $\Gamma(e^+e^-)$=0.60 ± 0.02 keV.

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

Violates *C* conservation.

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

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

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*	*TECN*	*COMMENT*
<1.9	95	[28] ABELE 97E	CBAR	0.0 $\overline{p}p \to 5\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<2	90	[28] PROKOSHKIN 95	GAM2	38 $\pi^- p \to 3\gamma n$

[28] From direct 3γ decay search.

$\Gamma(\pi^0\gamma)/\Gamma_{total}$ — 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	[29] BENAYOUN 96	RVUE	$e^+e^- \to \pi^0\gamma$

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

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