Γ_{43}	$\phi f_1(1285)$		$(2.6 \pm 0.5) \times 10^{-4}$	S=1.1
Γ_{44}	$\rho\eta$		$(1.93 \pm 0.23) \times 10^{-4}$	
Γ_{45}	$\omega\eta'(958)$		$(1.67 \pm 0.25) \times 10^{-4}$	
Γ_{46}	$\omega f_0(980)$		$(1.4 \pm 0.5) \times 10^{-4}$	
Γ_{47}	$\rho\eta'(958)$		$(1.05 \pm 0.18) \times 10^{-4}$	
Γ_{48}	$p\overline{p}\phi$		$(4.5 \pm 1.5) \times 10^{-5}$	
Γ_{49}	$a_2(1320)^{\pm}\pi^{\mp}$	[a]	$< 4.3 \times 10^{-3}$	CL=90%
Γ_{50}	$K\overline{K}{}^*_2(1430) +$ c.c.		$< 4.0 \times 10^{-3}$	CL=90%
Γ_{51}	$K^*_2(1430)^0\overline{K}{}^*_2(1430)^0$		$< 2.9 \times 10^{-3}$	CL=90%
Γ_{52}	$K^*(892)^0\overline{K}{}^*(892)^0$		$< 5 \times 10^{-4}$	CL=90%
Γ_{53}	$\phi f_2(1270)$		$< 3.7 \times 10^{-4}$	CL=90%
Γ_{54}	$p\overline{p}\rho$		$< 3.1 \times 10^{-4}$	CL=90%
Γ_{55}	$\phi\eta(1440) \to \phi\eta\pi\pi$		$< 2.5 \times 10^{-4}$	CL=90%
Γ_{56}	$\omega f'_2(1525)$		$< 2.2 \times 10^{-4}$	CL=90%
Γ_{57}	$\Sigma(1385)^0\overline{\Lambda}$		$< 2 \times 10^{-4}$	CL=90%
Γ_{58}	$\Delta(1232)^+\overline{p}$		$< 1 \times 10^{-4}$	CL=90%
Γ_{59}	$\Sigma^0\overline{\Lambda}$		$< 9 \times 10^{-5}$	CL=90%
Γ_{60}	$\phi\pi^0$		$< 6.8 \times 10^{-6}$	CL=90%

Decays into stable hadrons

Γ_{61}	$2(\pi^+\pi^-)\pi^0$		(3.37 ± 0.26) %	
Γ_{62}	$3(\pi^+\pi^-)\pi^0$		(2.9 ± 0.6) %	
Γ_{63}	$\pi^+\pi^-\pi^0$		(1.50 ± 0.20) %	
Γ_{64}	$\pi^+\pi^-\pi^0 K^+K^-$		(1.20 ± 0.30) %	
Γ_{65}	$4(\pi^+\pi^-)\pi^0$		$(9.0 \pm 3.0) \times 10^{-3}$	
Γ_{66}	$\pi^+\pi^-K^+K^-$		$(7.2 \pm 2.3) \times 10^{-3}$	
Γ_{67}	$K\overline{K}\pi$		$(6.1 \pm 1.0) \times 10^{-3}$	
Γ_{68}	$p\overline{p}\pi^+\pi^-$		$(6.0 \pm 0.5) \times 10^{-3}$	S=1.3
Γ_{69}	$2(\pi^+\pi^-)$		$(4.0 \pm 1.0) \times 10^{-3}$	
Γ_{70}	$3(\pi^+\pi^-)$		$(4.0 \pm 2.0) \times 10^{-3}$	
Γ_{71}	$n\overline{n}\pi^+\pi^-$		$(4 \pm 4) \times 10^{-3}$	
Γ_{72}	$\Sigma\overline{\Sigma}$		$(3.8 \pm 0.5) \times 10^{-3}$	
Γ_{73}	$2(\pi^+\pi^-)K^+K^-$		$(3.1 \pm 1.3) \times 10^{-3}$	
Γ_{74}	$p\overline{p}\pi^+\pi^-\pi^0$	[b]	$(2.3 \pm 0.9) \times 10^{-3}$	S=1.9
Γ_{75}	$p\overline{p}$		$(2.14 \pm 0.10) \times 10^{-3}$	
Γ_{76}	$p\overline{p}\eta$		$(2.09 \pm 0.18) \times 10^{-3}$	
Γ_{77}	$p\overline{n}\pi^-$		$(2.00 \pm 0.10) \times 10^{-3}$	
Γ_{78}	$n\overline{n}$		$(1.9 \pm 0.5) \times 10^{-3}$	
Γ_{79}	$\Xi\overline{\Xi}$		$(1.8 \pm 0.4) \times 10^{-3}$	S=1.8
Γ_{80}	$\Lambda\overline{\Lambda}$		$(1.35 \pm 0.14) \times 10^{-3}$	S=1.2
Γ_{81}	$p\overline{p}\pi^0$		$(1.09 \pm 0.09) \times 10^{-3}$	
Γ_{82}	$\Lambda\overline{\Sigma}{}^-\pi^+$ (or c.c.)	[a]	$(1.06 \pm 0.12) \times 10^{-3}$	
Γ_{83}	$pK^-\overline{\Lambda}$		$(8.9 \pm 1.6) \times 10^{-4}$	
Γ_{84}	$2(K^+K^-)$		$(7.0 \pm 3.0) \times 10^{-4}$	
Γ_{85}	$pK^-\overline{\Sigma}{}^0$		$(2.9 \pm 0.8) \times 10^{-4}$	
Γ_{86}	K^+K^-		$(2.37 \pm 0.31) \times 10^{-4}$	
Γ_{87}	$\Lambda\overline{\Lambda}\pi^0$		$(2.2 \pm 0.7) \times 10^{-4}$	
Γ_{88}	$\pi^+\pi^-$		$(1.47 \pm 0.23) \times 10^{-4}$	
Γ_{89}	$K^0_S K^0_L$		$(1.08 \pm 0.14) \times 10^{-4}$	
Γ_{90}	$\Lambda\overline{\Sigma} +$ c.c.		$< 1.5 \times 10^{-4}$	CL=90%
Γ_{91}	$K^0_S K^0_S$		$< 5.2 \times 10^{-6}$	CL=90%

Radiative decays

Γ_{92}	$\gamma\eta_c(1S)$		(1.3 ± 0.4) %	
Γ_{93}	$\gamma\pi^+\pi^-2\pi^0$		$(8.3 \pm 3.1) \times 10^{-3}$	
Γ_{94}	$\gamma\eta\pi\pi$		$(6.1 \pm 1.0) \times 10^{-3}$	
Γ_{95}	$\gamma\eta(1440) \to \gamma K\overline{K}\pi$	[c]	$(9.1 \pm 1.8) \times 10^{-4}$	
Γ_{96}	$\gamma\eta(1440) \to \gamma\gamma\rho^0$		$(6.4 \pm 1.4) \times 10^{-5}$	
Γ_{97}	$\gamma\rho\rho$		$(4.5 \pm 0.8) \times 10^{-3}$	
Γ_{98}	$\gamma\eta'(958)$		$(4.31 \pm 0.30) \times 10^{-3}$	
Γ_{99}	$\gamma 2\pi^+2\pi^-$		$(2.8 \pm 0.5) \times 10^{-3}$	S=1.9
Γ_{100}	$\gamma f_4(2050)$		$(2.7 \pm 0.7) \times 10^{-3}$	
Γ_{101}	$\gamma\omega\omega$		$(1.59 \pm 0.33) \times 10^{-3}$	
Γ_{102}	$\gamma\eta(1440) \to \gamma\rho^0\rho^0$		$(1.4 \pm 0.4) \times 10^{-3}$	
Γ_{103}	$\gamma f_2(1270)$		$(1.38 \pm 0.14) \times 10^{-3}$	
Γ_{104}	$\gamma f_J(1710) \to \gamma K\overline{K}$		$(9.7 \pm 1.2) \times 10^{-4}$	
Γ_{105}	$\gamma\eta$		$(8.6 \pm 0.8) \times 10^{-4}$	
Γ_{106}	$\gamma f_1(1420) \to \gamma K\overline{K}\pi$		$(8.3 \pm 1.5) \times 10^{-4}$	
Γ_{107}	$\gamma f_1(1285)$		$(6.5 \pm 1.0) \times 10^{-4}$	
Γ_{108}	$\gamma f'_2(1525)$		$(6.3 \pm 1.0) \times 10^{-4}$	
Γ_{109}	$\gamma\phi\phi$		$(4.0 \pm 1.2) \times 10^{-4}$	S=2.1
Γ_{110}	$\gamma p\overline{p}$		$(3.8 \pm 1.0) \times 10^{-4}$	
Γ_{111}	$\gamma\eta(2225)$		$(2.9 \pm 0.6) \times 10^{-4}$	
Γ_{112}	$\gamma\eta(1760) \to \gamma\rho^0\rho^0$		$(1.3 \pm 0.9) \times 10^{-4}$	
Γ_{113}	$\gamma\pi^0$		$(3.9 \pm 1.3) \times 10^{-5}$	
Γ_{114}	$\gamma p\overline{p}\pi^+\pi^-$		$< 7.9 \times 10^{-4}$	CL=90%
Γ_{115}	$\gamma\gamma$		$< 5 \times 10^{-4}$	CL=90%
Γ_{116}	$\gamma\Lambda\overline{\Lambda}$		$< 1.3 \times 10^{-4}$	CL=90%
Γ_{117}	3γ		$< 5.5 \times 10^{-5}$	CL=90%
Γ_{118}	$\gamma X(2200)$			
Γ_{119}	$\gamma f_4(2220)$			
Γ_{120}	$\gamma X(1400)$			

[a] The value is for the sum of the charge states indicated.

[b] Includes $p\overline{p}\pi^+\pi^-\gamma$ and excludes $p\overline{p}\eta$, $p\overline{p}\omega$, $p\overline{p}\eta'$.

[c] See the "Note on the $\eta(1440)$" in the $\eta(1440)$ Full Listings.

$J/\psi(1S)$ PARTIAL WIDTHS

$\Gamma(\text{hadrons})$ — Γ_1

VALUE (keV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
59 ± 24	BALDINI-...	75	FRAG	e^+e^-
59 ± 14	BOYARSKI	75	MRK1	e^+e^-
50 ± 25	ESPOSITO	75B	FRAM	e^+e^-

$\Gamma(\text{virtual}\,\gamma \to \text{hadrons})$ — Γ_2

VALUE (keV)	DOCUMENT ID		TECN	COMMENT
12 ±2	[3] BOYARSKI	75	MRK1	e^+e^-

[3] Included in Γ(hadrons).

$\Gamma(e^+e^-)$ — Γ_3

VALUE (keV)	DOCUMENT ID		TECN	COMMENT
5.26±0.37 OUR EVALUATION				
• • • We do not use the following data for averages, fits, limits, etc. • • •				
$5.36^{+0.29}_{-0.28}$	[4] HSUEH	92	RVUE	See Υ mini-review
4.72 ± 0.35	ALEXANDER	89	RVUE	See Υ mini-review
4.4 ± 0.6	[4] BRANDELIK	79C	DASP	e^+e^-
4.6 ± 0.8	[5] BALDINI-...	75	FRAG	e^+e^-
4.8 ± 0.6	BOYARSKI	75	MRK1	e^+e^-
4.6 ± 1.0	ESPOSITO	75B	FRAM	e^+e^-

[4] From a simultaneous fit to e^+e^-, $\mu^+\mu^-$, and hadronic channels assuming $\Gamma(e^+e^-) = \Gamma(\mu^+\mu^-)$.

[5] Assuming equal partial widths for e^+e^- and $\mu^+\mu^-$.

$\Gamma(\mu^+\mu^-)$ — Γ_4

VALUE (keV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
4.8 ± 0.6	BOYARSKI	75	MRK1	e^+e^-
5.0 ± 1.0	ESPOSITO	75B	FRAM	e^+e^-

$\Gamma(\gamma\gamma)$ — Γ_{115}

VALUE (eV)	CL%	DOCUMENT ID		TECN	COMMENT
<5.4	90	BRANDELIK	79C	DASP	e^+e^-

$J/\psi(1S)$ $\Gamma(i)\Gamma(e^+e^-)/\Gamma(\text{total})$

This combination of a partial width with the partial width into e^+e^- and with the total width is obtained from the integrated cross section into channel$_I$ in the e^+e^- annihilation.

$\Gamma(\text{hadrons}) \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$ — $\Gamma_1\Gamma_3/\Gamma$

VALUE (keV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
4 ± 0.8	[7] BALDINI-...	75	FRAG	e^+e^-
3.9 ± 0.8	[7] ESPOSITO	75B	FRAM	e^+e^-

$\Gamma(e^+e^-) \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$ — $\Gamma_3\Gamma_3/\Gamma$

VALUE (keV)	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.35 ± 0.02	BRANDELIK	79C	DASP	e^+e^-
0.32 ± 0.07	[7] BALDINI-...	75	FRAG	e^+e^-
0.34 ± 0.14	BEMPORAD	75	FRAB	e^+e^-
0.34 ± 0.09	[7] ESPOSITO	75B	FRAM	e^+e^-
0.36 ± 0.10	[7] FORD	75	SPEC	e^+e^-