$\psi(3770)$

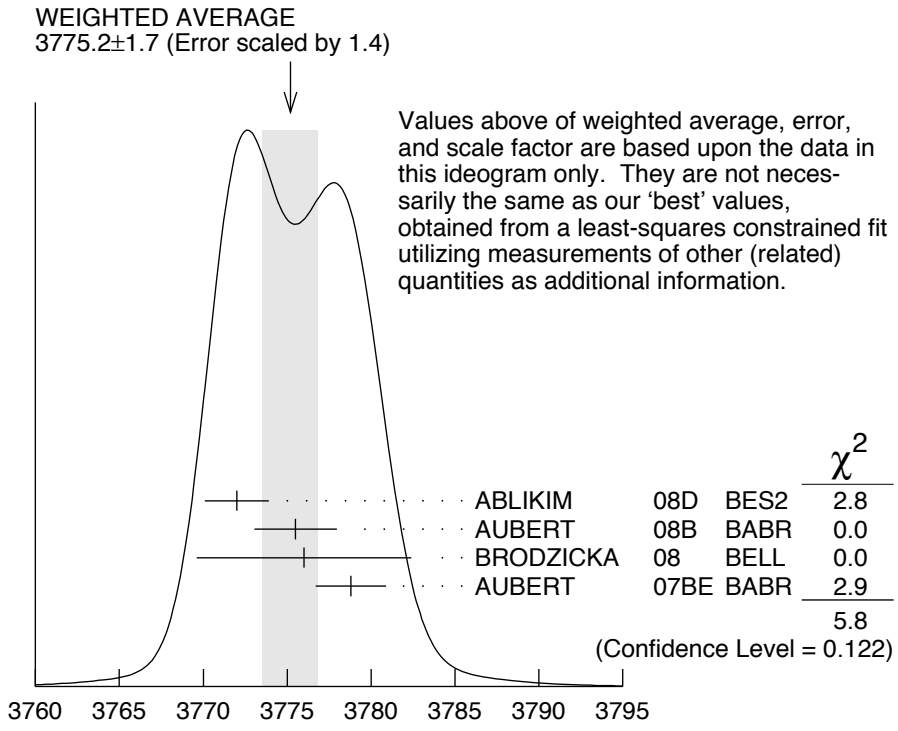
$I^G(J^{PC}) = 0^-(1^{--})$

$\psi(3770)$ MASS (MeV)

OUR FIT includes measurements of $m_{\psi(2S)}$, $m_{\psi(3770)}$, and $m_{\psi(3770)} - m_{\psi(2S)}$.

VALUE (MeV)	*EVTS*	*DOCUMENT ID*	*TECN*	*COMMENT*
3772.92±0.35 OUR FIT Error includes scale factor of 1.1.				
3775.2 ±1.7 OUR AVERAGE Error includes scale factor of 1.4. See the ideogram below.				
3772.0 ±1.9		[1] ABLIKIM	08D BES2	$e^+e^- \to$ hadrons
3775.5 ±2.4 ±0.5	57	AUBERT	08B BABR	$B \to D\overline{D}K$
3776 ±5 ±4	68	BRODZICKA	08 BELL	$B^+ \to D^0\overline{D}^0K^+$
3778.8 ±1.9 ±0.9		AUBERT	07BE BABR	$e^+e^- \to D\overline{D}\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
3778.4 ±3.0 ±1.3	34	CHISTOV	04 BELL	Sup. by BRODZICKA 08

[1] Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = 0^\circ$.

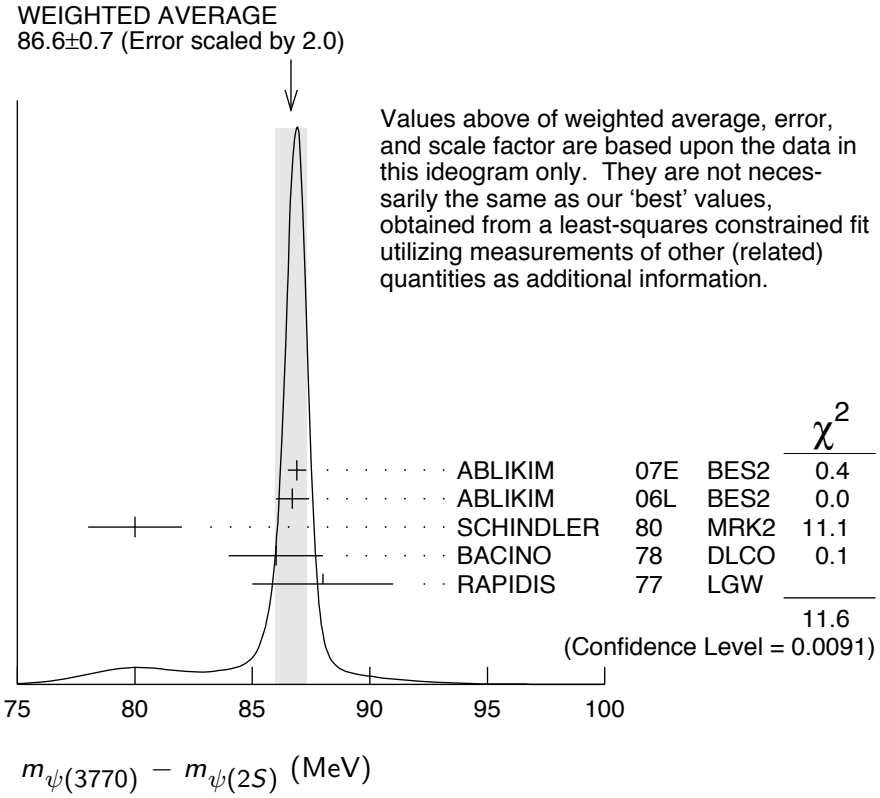


$m_{\psi(3770)} - m_{\psi(2S)}$

OUR FIT includes measurements of $m_{\psi(2S)}$, $m_{\psi(3770)}$, and $m_{\psi(3770)} - m_{\psi(2S)}$.

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
86.83±0.35 OUR FIT Error includes scale factor of 1.1.				
86.6 ±0.7 OUR AVERAGE Error includes scale factor of 2.0. See the ideogram below.				
86.9 ±0.4	[2] ABLIKIM	07E	BES2	$e^+e^- \to$ hadrons
86.7 ±0.7	ABLIKIM	06L	BES2	$e^+e^- \to$ hadrons
80 ±2	SCHINDLER	80	MRK2	e^+e^-
86 ±2	[3] BACINO	78	DLCO	e^+e^-
88 ±3	RAPIDIS	77	LGW	e^+e^-

[2] BES-II $\psi(2S)$ mass subtracted (see ABLIKIM 06L).
[3] SPEAR $\psi(2S)$ mass subtracted (see SCHINDLER 80).



$\psi(3770)$ WIDTH

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
27.3± 1.0 OUR FIT					
27.6± 1.0 OUR AVERAGE					
30.4± 8.5		[4] ABLIKIM	08D	BES2	$e^+e^- \to$ hadrons
27 ±10 ±5	68	BRODZICKA	08	BELL	$B^+ \to D^0\overline{D}^0K^+$
28.5± 1.2±0.2		ABLIKIM	07E	BES2	$e^+e^- \to$ hadrons
23.5± 3.7±0.9		AUBERT	07BE	BABR	$e^+e^- \to D\overline{D}\gamma$

26.9± 2.4±0.3	ABLIKIM	06L	BES2	e^+e^- → hadrons
24 ± 5	SCHINDLER	80	MRK2	e^+e^-
24 ± 5	BACINO	78	DLCO	e^+e^-
28 ± 5	RAPIDIS	77	LGW	e^+e^-

[4] Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = 0^\circ$.

$\psi(3770)$ DECAY MODES

In addition to the dominant decay mode to $D\overline{D}$, $\psi(3770)$ was found to decay into the final states containing the J/ψ (BAI 05, ADAM 06). ADAMS 06 and HUANG 06A searched for various decay modes with light hadrons and found a statistically significant signal for the decay to $\phi\eta$ only (ADAMS 06).

	Mode	Fraction (Γ_i/Γ)	Scale factor/ Confidence level
Γ_1	$D\overline{D}$	(93 $^{+8}_{-9}$) %	S=2.0
Γ_2	$D^0\overline{D}^0$	(52 ±5) %	S=2.0
Γ_3	D^+D^-	(41 ±4) %	S=2.0
Γ_4	$J/\psi\pi^+\pi^-$	(1.93±0.28) × 10^{-3}	
Γ_5	$J/\psi\pi^0\pi^0$	(8.0 ±3.0) × 10^{-4}	
Γ_6	$J/\psi\eta$	(9 ±4) × 10^{-4}	
Γ_7	$J/\psi\pi^0$	< 2.8 × 10^{-4}	CL=90%
Γ_8	$\gamma\chi_{c0}$	(7.3 ±0.9) × 10^{-3}	
Γ_9	$\gamma\chi_{c1}$	(2.9 ±0.6) × 10^{-3}	
Γ_{10}	$\gamma\chi_{c2}$	< 9 × 10^{-4}	CL=90%
Γ_{11}	e^+e^-	(9.7 ±0.7) × 10^{-6}	S=1.2
Γ_{12}	$K^0_S K^0_L$	< 1.2 × 10^{-5}	CL=90%
Γ_{13}	$2(\pi^+\pi^-)$	< 1.12 × 10^{-3}	CL=90%
Γ_{14}	$2(\pi^+\pi^-)\pi^0$	< 1.06 × 10^{-3}	CL=90%
Γ_{15}	$2(\pi^+\pi^-\pi^0)$	< 5.85 %	CL=90%
Γ_{16}	$\omega\pi^+\pi^-$	< 6.0 × 10^{-4}	CL=90%
Γ_{17}	$3(\pi^+\pi^-)$	< 9.1 × 10^{-3}	
Γ_{18}	$3(\pi^+\pi^-)\pi^0$	< 1.37 %	
Γ_{19}	$3(\pi^+\pi^-)2\pi^0$	< 11.74 %	CL=90%
Γ_{20}	$\eta\pi^+\pi^-$	< 1.24 × 10^{-3}	CL=90%
Γ_{21}	$\pi^+\pi^-2\pi^0$	< 8.9 × 10^{-3}	CL=90%
Γ_{22}	$\rho^0\pi^+\pi^-$	< 6.9 × 10^{-3}	CL=90%
Γ_{23}	$\eta 3\pi$	< 1.34 × 10^{-3}	CL=90%
Γ_{24}	$\eta 2(\pi^+\pi^-)$	< 2.43 %	
Γ_{25}	$\eta' 3\pi$	< 2.44 × 10^{-3}	CL=90%
Γ_{26}	$K^+K^-\pi^+\pi^-$	< 9.0 × 10^{-4}	CL=90%
Γ_{27}	$\phi\pi^+\pi^-$	< 4.1 × 10^{-4}	CL=90%
Γ_{28}	$K^+K^-2\pi^0$	< 4.2 × 10^{-3}	CL=90%

Γ_{29}	$\phi\pi^0$	not seen			
Γ_{30}	$\phi\eta$	(3.1 $\pm$0.7)	$\times 10^{-4}$		
Γ_{31}	$4(\pi^+\pi^-)$	$<$ 1.67	%		CL=90%
Γ_{32}	$4(\pi^+\pi^-)\pi^0$	$<$ 3.06	%		CL=90%
Γ_{33}	$\phi f_0(980)$	$<$ 4.5	$\times 10^{-4}$		CL=90%
Γ_{34}	$K^+K^-\pi^+\pi^-\pi^0$	$<$ 2.36	$\times 10^{-3}$		CL=90%
Γ_{35}	$K^+K^-\rho^0\pi^0$	$<$ 8	$\times 10^{-4}$		CL=90%
Γ_{36}	$K^+K^-\rho^+\pi^-$	$<$ 1.46	%		CL=90%
Γ_{37}	ωK^+K^-	$<$ 3.4	$\times 10^{-4}$		CL=90%
Γ_{38}	$\phi\pi^+\pi^-\pi^0$	$<$ 3.8	$\times 10^{-3}$		CL=90%
Γ_{39}	$K^{*0}K^-\pi^+\pi^0$ + c.c.	$<$ 1.62	%		CL=90%
Γ_{40}	$K^{*+}K^-\pi^+\pi^-$ + c.c.	$<$ 3.23	%		CL=90%
Γ_{41}	$K^+K^-\pi^+\pi^-2\pi^0$	$<$ 2.67	%		CL=90%
Γ_{42}	$K^+K^-2(\pi^+\pi^-)$	$<$ 1.03	%		CL=90%
Γ_{43}	$K^+K^-2(\pi^+\pi^-)\pi^0$	$<$ 3.60	%		CL=90%
Γ_{44}	ηK^+K^-	$<$ 4.1	$\times 10^{-4}$		CL=90%
Γ_{45}	$\rho^0K^+K^-$	$<$ 5.0	$\times 10^{-3}$		CL=90%
Γ_{46}	$2(K^+K^-)$	$<$ 6.0	$\times 10^{-4}$		CL=90%
Γ_{47}	ϕK^+K^-	$<$ 7.5	$\times 10^{-4}$		CL=90%
Γ_{48}	$2(K^+K^-)\pi^0$	$<$ 2.9	$\times 10^{-4}$		CL=90%
Γ_{49}	$2(K^+K^-)\pi^+\pi^-$	$<$ 3.2	$\times 10^{-3}$		CL=90%
Γ_{50}	$K^0_SK^-\pi^+$	$<$ 3.2	$\times 10^{-3}$		CL=90%
Γ_{51}	$K^0_SK^-\pi^+\pi^0$	$<$ 1.33	%		CL=90%
Γ_{52}	$K^0_SK^-\rho^+$	$<$ 6.6	$\times 10^{-3}$		CL=90%
Γ_{53}	$K^0_SK^-2\pi^+\pi^-$	$<$ 8.7	$\times 10^{-3}$		CL=90%
Γ_{54}	$K^0_SK^-\pi^+\rho^0$	$<$ 1.6	%		CL=90%
Γ_{55}	$K^0_SK^-\pi^+\eta$	$<$ 1.3	%		CL=90%
Γ_{56}	$K^0_SK^-2\pi^+\pi^-\pi^0$	$<$ 4.18	%		CL=90%
Γ_{57}	$K^0_SK^-2\pi^+\pi^-\eta$	$<$ 4.8	%		CL=90%
Γ_{58}	$K^0_SK^-\pi^+2(\pi^+\pi^-)$	$<$ 1.22	%		CL=90%
Γ_{59}	$K^0_SK^-\pi^+2\pi^0$	$<$ 2.65	%		CL=90%
Γ_{60}	$K^0_SK^-K^+K^-\pi^+$	$<$ 4.9	$\times 10^{-3}$		CL=90%
Γ_{61}	$K^0_SK^-K^+K^-\pi^+\pi^0$	$<$ 3.0	%		CL=90%
Γ_{62}	$K^0_SK^-K^+K^-\pi^+\eta$	$<$ 2.2	%		CL=90%
Γ_{63}	$K^{*0}K^-\pi^+$ + c.c.	$<$ 9.7	$\times 10^{-3}$		CL=90%
Γ_{64}	$p\overline{p}\pi^0$	$<$ 1.2	$\times 10^{-3}$		
Γ_{65}	$p\overline{p}\pi^+\pi^-$	$<$ 5.8	$\times 10^{-4}$		CL=90%
Γ_{66}	$\Lambda\overline{\Lambda}$	$<$ 1.2	$\times 10^{-4}$		CL=90%
Γ_{67}	$p\overline{p}\pi^+\pi^-\pi^0$	$<$ 1.85	$\times 10^{-3}$		CL=90%
Γ_{68}	$\omega p\overline{p}$	$<$ 2.9	$\times 10^{-4}$		CL=90%
Γ_{69}	$\Lambda\overline{\Lambda}\pi^0$	$<$ 1.2	$\times 10^{-3}$		CL=90%
Γ_{70}	$p\overline{p}2(\pi^+\pi^-)$	$<$ 2.6	$\times 10^{-3}$		CL=90%
Γ_{71}	$\eta p\overline{p}$	$<$ 5.4	$\times 10^{-4}$		CL=90%

Γ_{72}	$\rho^0 p\overline{p}$	$<$ 1.7	$\times 10^{-3}$	CL=90%
Γ_{73}	$p\overline{p}K^+K^-$	$<$ 3.2	$\times 10^{-4}$	CL=90%
Γ_{74}	$\phi p\overline{p}$	$<$ 1.3	$\times 10^{-4}$	CL=90%
Γ_{75}	$\Lambda\overline{\Lambda}\pi^+\pi^-$	$<$ 2.5	$\times 10^{-4}$	CL=90%
Γ_{76}	$\Lambda\overline{p}K^+$	$<$ 2.8	$\times 10^{-4}$	CL=90%
Γ_{77}	$\Lambda\overline{p}K^+\pi^+\pi^-$	$<$ 6.3	$\times 10^{-4}$	CL=90%
Γ_{78}	$\pi^+\pi^-\pi^0$	not seen		
Γ_{79}	$\rho\pi$	not seen		
Γ_{80}	$\omega\pi^0$	not seen		
Γ_{81}	$\rho\eta$	not seen		
Γ_{82}	$\omega\eta$	not seen		
Γ_{83}	$\rho\eta'$	not seen		
Γ_{84}	$\omega\eta'$	not seen		
Γ_{85}	$\phi\eta'$	not seen		
Γ_{86}	$K^{*0}\overline{K}^0$	not seen		
Γ_{87}	$K^{*+}K^-$	not seen		
Γ_{88}	$b_1\pi$	not seen		

Radiative decays

Γ_{89}	$\gamma\pi^0$	$<$ 2	$\times 10^{-4}$	CL=90%
Γ_{90}	$\gamma\eta$	$<$ 1.5	$\times 10^{-4}$	CL=90%
Γ_{91}	$\gamma\eta'$	$<$ 1.8	$\times 10^{-4}$	CL=90%

CONSTRAINED FIT INFORMATION

An overall fit to the total width, a partial width, and 3 branching ratios uses 21 measurements and one constraint to determine 5 parameters. The overall fit has a $\chi^2 = 17.9$ for 17 degrees of freedom.

The following *off-diagonal* array elements are the correlation coefficients $\left\langle \delta p_i \delta p_j \right\rangle / (\delta p_i \cdot \delta p_j)$, in percent, from the fit to parameters p_i, including the branching fractions, $x_i \equiv \Gamma_i/\Gamma_{\rm total}$. The fit constrains the x_i whose labels appear in this array to sum to one.

x_3	98		
x_{11}	0	0	
Γ	0	0	-46
	x_2	x_3	x_{11}

	Mode	Rate (MeV)	Scale factor
Γ_2	$D^0\overline{D}^0$	14.1 $\pm$1.4	1.7
Γ_3	D^+D^-	11.2 $\pm$1.1	1.7
Γ_{11}	e^+e^-	(2.65$\pm$0.18) $\times 10^{-4}$	1.3

$\psi(3770)$ PARTIAL WIDTHS

$\Gamma(e^+e^-)$ Γ_{11}

VALUE (keV)	EVTS	DOCUMENT ID		TECN	COMMENT
0.265±0.018 OUR FIT	Error includes scale factor of 1.3.				
0.259±0.016 OUR AVERAGE	Error includes scale factor of 1.2.				
0.22 ±0.05		[5] ABLIKIM	08D	BES2	$e^+e^- \to$ hadrons
0.277±0.011±0.013		ABLIKIM	07E	BES2	$e^+e^- \to$ hadrons
$0.203\pm0.003^{+0.041}_{-0.027}$	1.427M	[6] BESSON	06	CLEO	$e^+e^- \to$ hadrons
0.276±0.050		SCHINDLER	80	MRK2	e^+e^-
0.18 ±0.06		BACINO	78	DLCO	e^+e^-
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.37 ±0.09		[7] RAPIDIS	77	LGW	e^+e^-

[5] Reanalysis of data presented in BAI 02C. From a global fit over the center-of-mass energy region 3.7–5.0 GeV covering the $\psi(3770)$, $\psi(4040)$, $\psi(4160)$, and $\psi(4415)$ resonances. Phase angle fixed in the fit to $\delta = 0^\circ$.

[6] BESSON 06 (as corrected in BESSON 10) measure $\sigma(e^+e^- \to \psi(3770) \to \text{hadrons}) = 6.36 \pm 0.08^{+0.41}_{-0.30}$ nb at $\sqrt{s} = 3773 \pm 1$ MeV, and obtain Γ_{ee} from the Born-level cross section calculated using $\psi(3770)$ mass and width from our 2004 edition, PDG 04.

[7] See also $\Gamma(e^+e^-)/\Gamma_{\text{total}}$ below.

$\psi(3770)$ BRANCHING RATIOS

$\Gamma(D\overline{D})/\Gamma_{\text{total}}$ $\Gamma_1/\Gamma = (\Gamma_2+\Gamma_3)/\Gamma$

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
0.93 $^{+0.08}_{-0.09}$ OUR FIT	Error includes scale factor of 2.0.				
0.93 $^{+0.08}_{-0.09}$ OUR AVERAGE	Error includes scale factor of 2.1.				
0.849±0.056±0.018		[8] ABLIKIM	08B	BES2	$e^+e^- \to$ non-$D\overline{D}$
$1.033\pm0.014^{+0.048}_{-0.066}$	1.427M	[9] BESSON	06	CLEO	$e^+e^- \to$ hadrons
• • • We do not use the following data for averages, fits, limits, etc. • • •					
0.866±0.050±0.036		[10,11] ABLIKIM	07K	BES2	$e^+e^- \to$ non-$D\overline{D}$
0.836±0.073±0.042		[11] ABLIKIM	06L	BES2	$e^+e^- \to D\overline{D}$
0.855±0.017±0.058		[11,12] ABLIKIM	06N	BES2	$e^+e^- \to D\overline{D}$

$\Gamma(D^0\overline{D}^0)/\Gamma_{\text{total}}$ Γ_2/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
0.52 ±0.05 OUR FIT	Error includes scale factor of 2.0.			
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.467±0.047±0.023	ABLIKIM	06L	BES2	$e^+e^- \to D^0\overline{D}^0$
0.499±0.013±0.038	[12] ABLIKIM	06N	BES2	$e^+e^- \to D^0\overline{D}^0$

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

VALUE	DOCUMENT ID		TECN	COMMENT
0.41 ±0.04 OUR FIT	Error includes scale factor of 2.0.			
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.369±0.037±0.028	ABLIKIM	06L	BES2	$e^+e^- \to D^+D^-$
0.357±0.011±0.034	[12] ABLIKIM	06N	BES2	$e^+e^- \to D^+D^-$

$\Gamma(D^0\overline{D}^0)/\Gamma(D^+D^-)$ Γ_2/Γ_3

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
1.260±0.021 OUR FIT					
1.260±0.021 OUR AVERAGE					
1.39 ±0.31 ±0.12		PAKHLOVA	08	BELL	10.6 $e^+e^- \to D\overline{D}\gamma$
1.78 ±0.33 ±0.24		AUBERT	07BE	BABR	$e^+e^- \to D\overline{D}\gamma$
1.258±0.016±0.014		DOBBS	07	CLEO	$e^+e^- \to D\overline{D}$
1.27 ±0.12 ±0.08		ABLIKIM	06L	BES2	$e^+e^- \to D\overline{D}$
2.43 ±1.50 ±0.43	34	[13] CHISTOV	04	BELL	$B^+ \to \psi(3770)K^+$

$\Gamma(J/\psi\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_4/Γ

VALUE (units 10^{-3})	EVTS	DOCUMENT ID		TECN	COMMENT
1.93±0.28 OUR AVERAGE					
1.89±0.20±0.20	231 ± 33	ADAM	06	CLEO	$e^+e^- \to \psi(3770)$
3.4 ±1.4 ±0.9	17.8 ± 4.8	BAI	05	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(J/\psi\pi^0\pi^0)/\Gamma_{\text{total}}$ Γ_5/Γ

VALUE (units 10^{-2})	EVTS	DOCUMENT ID		TECN	COMMENT
0.080±0.025±0.016	39 ± 14	ADAM	06	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(J/\psi\eta)/\Gamma_{\text{total}}$ Γ_6/Γ

VALUE (units 10^{-5})	EVTS	DOCUMENT ID		TECN	COMMENT
87±33±22	22 ± 10	ADAM	06	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(J/\psi\pi^0)/\Gamma_{\text{total}}$ Γ_7/Γ

VALUE (units 10^{-5})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<28	90	<10	ADAM	06	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\gamma\chi_{c0})/\Gamma_{\text{total}}$ Γ_8/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
7.3±0.7±0.6		274 ± 27	[14] BRIERE	06	CLEO	$e^+e^- \to \psi(3770) \to \gamma +$ hadrons
• • • We do not use the following data for averages, fits, limits, etc. • • •						
< 44	90		[15] COAN	06A	CLEO	$e^+e^- \to \psi(3770) \to \gamma\gamma J/\psi$

$\Gamma(\gamma\chi_{c1})/\Gamma_{\text{total}}$ Γ_9/Γ

VALUE (units 10^{-3})	EVTS	DOCUMENT ID		TECN	COMMENT
2.9±0.5±0.4		[16] BRIERE	06	CLEO	$e^+e^- \to \psi(3770) \to \gamma +$ hadrons, $\gamma\gamma J/\psi$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
3.9±1.4±0.6	54 ± 17	[17] BRIERE	06	CLEO	$e^+e^- \to \psi(3770) \to \gamma +$ hadrons
2.8±0.5±0.4	53 ± 10	[15] COAN	06A	CLEO	$e^+e^- \to \psi(3770) \to \gamma\gamma J/\psi$

$\Gamma(\gamma\chi_{c1})/\Gamma(J/\psi\pi^+\pi^-)$ Γ_9/Γ_4

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
1.49±0.31±0.26	53 ± 10	[18] COAN	06A	CLEO	$e^+e^- \to \psi(3770) \to \gamma\gamma J/\psi$

$\Gamma(\gamma\chi_{c0})/\Gamma(\gamma\chi_{c1})$ Γ_8/Γ_9

VALUE	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •				
2.5 ± 0.6	[19] BRIERE	06	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\gamma\chi_{c2})/\Gamma_{\text{total}}$ Γ_{10}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<0.9	90	[15] COAN	06A	CLEO	$e^+e^- \to \psi(3770) \to \gamma\gamma J/\psi$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<2.0	90	[20] BRIERE	06	CLEO	$e^+e^- \to \psi(3770) \to \gamma +$ hadrons

$\Gamma(\gamma\chi_{c0})/\Gamma(\gamma\chi_{c2})$ Γ_8/Γ_{10}

VALUE	CL%	DOCUMENT ID		TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •					
>8	90	[19] BRIERE	06	CLEO	$e^+e^- \to \psi(3770)$

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

VALUE (units 10^{-5})	DOCUMENT ID		TECN	COMMENT
0.97±0.07 OR FIT Error includes scale factor of 1.2.				
1.3 ±0.2	RAPIDIS	77	LGW	e^+e^-

$\Gamma(K_S^0 K_L^0)/\Gamma_{\text{total}}$ Γ_{12}/Γ

VALUE (units 10^{-5})	CL%	DOCUMENT ID		TECN	COMMENT
< 1.2	90	[21] CRONIN-HEN..	06	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<21	90	[22] ABLIKIM	04F	BES	$e^+e^- \to \psi(3770)$

$\Gamma(2(\pi^+\pi^-))/\Gamma_{\text{total}}$ Γ_{13}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<11.2	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<48		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(2(\pi^+\pi^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{14}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<10.6	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<62		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(2(\pi^+\pi^-\pi^0))/\Gamma_{\text{total}}$ Γ_{15}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<58.5	90	305	ABLIKIM	08N	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\omega\pi^+\pi^-)/\Gamma_{total}$ Γ_{16}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 6.0	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<55	90	[26] ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(3(\pi^+\pi^-))/\Gamma_{total}$ Γ_{17}/Γ

VALUE (units 10^{-4})	DOCUMENT ID		TECN	COMMENT
<91	[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(3(\pi^+\pi^-)\pi^0)/\Gamma_{total}$ Γ_{18}/Γ

VALUE (units 10^{-4})	DOCUMENT ID		TECN	COMMENT
<137	[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(3(\pi^+\pi^-)2\pi^0)/\Gamma_{total}$ Γ_{19}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<117.4	90	59	ABLIKIM	08N	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\eta\pi^+\pi^-)/\Gamma_{total}$ Γ_{20}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<12.4	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\pi^+\pi^-2\pi^0)/\Gamma_{total}$ Γ_{21}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<8.9	90	218	ABLIKIM	08N	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\rho^0\pi^+\pi^-)/\Gamma_{total}$ Γ_{22}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<6.9	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\eta 3\pi)/\Gamma_{total}$ Γ_{23}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<13.4	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\eta 2(\pi^+\pi^-))/\Gamma_{total}$ Γ_{24}/Γ

VALUE (units 10^{-4})	DOCUMENT ID		TECN	COMMENT
<243	[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\eta' 3\pi)/\Gamma_{total}$ Γ_{25}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<24.4	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(K^+K^-\pi^+\pi^-)/\Gamma_{total}$ Γ_{26}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 9.0	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<48		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\phi\pi^+\pi^-)/\Gamma_{total}$ Γ_{27}/Γ

VALUE (units 10^{-4})	CL%		DOCUMENT ID		TECN	COMMENT
< 4.1	90	[23]	HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<16		[24,25]	ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^+K^-2\pi^0)/\Gamma_{total}$ Γ_{28}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<4.2	90	14	ABLIKIM	08N	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\phi\pi^0)/\Gamma_{total}$ Γ_{29}/Γ

VALUE (units 10^{-4})		DOCUMENT ID		TECN	COMMENT
<5	[24,25]	ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\phi\eta)/\Gamma_{total}$ Γ_{30}/Γ

VALUE (units 10^{-4})		DOCUMENT ID		TECN	COMMENT
3.1±0.6±0.3	[27]	ADAMS	06	CLEO	3.773 $e^+e^- \to \phi\eta$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<19	[24,25]	ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(4(\pi^+\pi^-))/\Gamma_{total}$ Γ_{31}/Γ

VALUE (units 10^{-3})	CL%		DOCUMENT ID		TECN	COMMENT
<16.7	90	[24,25]	ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(4(\pi^+\pi^-)\pi^0)/\Gamma_{total}$ Γ_{32}/Γ

VALUE (units 10^{-3})	CL%		DOCUMENT ID		TECN	COMMENT
<30.6	90	[24,25]	ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\phi f_0(980))/\Gamma_{total}$ Γ_{33}/Γ

VALUE (units 10^{-4})	CL%		DOCUMENT ID		TECN	COMMENT
<4.5	90	[23]	HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(K^+K^-\pi^+\pi^-\pi^0)/\Gamma_{total}$ Γ_{34}/Γ

VALUE (units 10^{-4})	CL%		DOCUMENT ID		TECN	COMMENT
< 23.6	90	[23]	HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<111		[24,25]	ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^+K^-\rho^0\pi^0)/\Gamma_{total}$ Γ_{35}/Γ

VALUE (units 10^{-4})	CL%		DOCUMENT ID		TECN	COMMENT
<8	90	[26]	ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(K^+K^-\rho^+\pi^-)/\Gamma_{total}$ Γ_{36}/Γ

VALUE (units 10^{-4})	CL%		DOCUMENT ID		TECN	COMMENT
<146	90	[26]	ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(\omega K^+ K^-)/\Gamma_{total}$ Γ_{37}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 3.4	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<66	90	[26] ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(\phi\pi^+\pi^-\pi^0)/\Gamma_{total}$ Γ_{38}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<38	90	[26] ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(K^{*0}K^-\pi^+\pi^0 + \text{c.c.})/\Gamma_{total}$ Γ_{39}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<162	90	[26] ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(K^{*+}K^-\pi^+\pi^- + \text{c.c.})/\Gamma_{total}$ Γ_{40}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<323	90	[26] ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(K^+K^-\pi^+\pi^-2\pi^0)/\Gamma_{total}$ Γ_{41}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<26.7	90	24	ABLIKIM	08N	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^+K^-2(\pi^+\pi^-))/\Gamma_{total}$ Γ_{42}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<10.3	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^+K^-2(\pi^+\pi^-)\pi^0)/\Gamma_{total}$ Γ_{43}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<36.0	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\eta K^+ K^-)/\Gamma_{total}$ Γ_{44}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<4.1	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\rho^0 K^+ K^-)/\Gamma_{total}$ Γ_{45}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<5.0	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(2(K^+K^-))/\Gamma_{total}$ Γ_{46}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 6.0	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<17		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\phi K^+ K^-)/\Gamma_{\text{total}}$ Γ_{47}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 7.5	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<24		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(2(K^+ K^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{48}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 2.9	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<46		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(2(K^+ K^-)\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{49}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<3.2	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- \pi^+)/\Gamma_{\text{total}}$ Γ_{50}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<3.2	90	18	ABLIKIM	08M	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- \pi^+ \pi^0)/\Gamma_{\text{total}}$ Γ_{51}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<13.3	90	40	ABLIKIM	08M	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- \rho^+)/\Gamma_{\text{total}}$ Γ_{52}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<6.6	90	ABLIKIM	09C	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- 2\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{53}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<8.7	90	39	ABLIKIM	08M	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- \pi^+ \rho^0)/\Gamma_{\text{total}}$ Γ_{54}/Γ

VALUE (units 10^{-2})	CL%	DOCUMENT ID		TECN	COMMENT
<1.6	90	ABLIKIM	09C	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- \pi^+ \eta)/\Gamma_{\text{total}}$ Γ_{55}/Γ

VALUE (units 10^{-2})	CL%	DOCUMENT ID		TECN	COMMENT
<1.3	90	ABLIKIM	09C	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- 2\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$ Γ_{56}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<41.8	90	23	ABLIKIM	08M	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- 2\pi^+\pi^-\eta)/\Gamma_{total}$ Γ_{57}/Γ

VALUE (units 10^{-2})	CL%	DOCUMENT ID		TECN	COMMENT
<4.8	90	ABLIKIM	09C	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- \pi^+ 2(\pi^+\pi^-))/\Gamma_{total}$ Γ_{58}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<12.2	90	4	ABLIKIM	08M	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- \pi^+ 2\pi^0)/\Gamma_{total}$ Γ_{59}/Γ

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
<26.5	90	17	ABLIKIM	08M	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- K^+ K^- \pi^+)/\Gamma_{total}$ Γ_{60}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<4.9	90	ABLIKIM	09C	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- K^+ K^- \pi^+\pi^0)/\Gamma_{total}$ Γ_{61}/Γ

VALUE (units 10^{-2})	CL%	DOCUMENT ID		TECN	COMMENT
<3.0	90	ABLIKIM	09C	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^0_S K^- K^+ K^- \pi^+\eta)/\Gamma_{total}$ Γ_{62}/Γ

VALUE (units 10^{-2})	CL%	DOCUMENT ID		TECN	COMMENT
<2.2	90	ABLIKIM	09C	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(K^{*0} K^- \pi^+ + \text{c.c.})/\Gamma_{total}$ Γ_{63}/Γ

VALUE (units 10^{-3})	CL%		DOCUMENT ID		TECN	COMMENT
<9.7	90	[24,25]	ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(p\bar{p}\pi^0)/\Gamma_{total}$ Γ_{64}/Γ

VALUE (units 10^{-4})		DOCUMENT ID		TECN	COMMENT
<12	[24,25]	ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(p\bar{p}\pi^+\pi^-)/\Gamma_{total}$ Γ_{65}/Γ

VALUE (units 10^{-4})	CL%		DOCUMENT ID		TECN	COMMENT
< 5.8	90	[23]	HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<16		[24,25]	ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\bar{\Lambda})/\Gamma_{total}$ Γ_{66}/Γ

VALUE (units 10^{-4})	CL%		DOCUMENT ID		TECN	COMMENT
<1.2	90	[23]	HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
<4	90	[24,25]	ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(p\bar{p}\pi^+\pi^-\pi^0)/\Gamma_{total}$ Γ_{67}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<18.5	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<73		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\omega p\bar{p})/\Gamma_{total}$ Γ_{68}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 2.9	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<30	90	[26] ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(\Lambda\bar{\Lambda}\pi^0)/\Gamma_{total}$ Γ_{69}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<12	90	[26] ABLIKIM	07I	BES2	3.77 e^+e^-

$\Gamma(p\bar{p}2(\pi^+\pi^-))/\Gamma_{total}$ Γ_{70}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<2.6	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\eta p\bar{p})/\Gamma_{total}$ Γ_{71}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<5.4	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\rho^0 p\bar{p})/\Gamma_{total}$ Γ_{72}/Γ

VALUE (units 10^{-3})	CL%	DOCUMENT ID		TECN	COMMENT
<1.7	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(p\bar{p}K^+K^-)/\Gamma_{total}$ Γ_{73}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 3.2	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<11		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\phi p\bar{p})/\Gamma_{total}$ Γ_{74}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<1.3	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<9		[24,25] ABLIKIM	07B	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\bar{\Lambda}\pi^+\pi^-)/\Gamma_{total}$ Γ_{75}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
< 2.5	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<39	90	[24,25] ABLIKIM	07F	BES2	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\bar{p}K^+)/\Gamma_{total}$ Γ_{76}/Γ

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*		*TECN*	*COMMENT*
<2.8	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\bar{p}K^+\pi^+\pi^-)/\Gamma_{total}$ Γ_{77}/Γ

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*		*TECN*	*COMMENT*
<6.3	90	[23] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

[8] Neglecting interference.

[9] Obtained by comparing a measurement of the total cross section (corrected in BESSON 10) with that of $D\overline{D}$ reported by CLEO in DOBBS 07.

[10] Using $\sigma^{obs} = 7.07 \pm 0.58$ nb and neglecting interference.

[11] Not independent of ABLIKIM 08B.

[12] From a measurement of $\sigma(e^+e^- \to D\overline{D})$ at $\sqrt{s} = 3773$ MeV, using the $\psi(3770)$ resonance parameters measured by ABLIKIM 06L.

[13] See ADLER 88C for older measurements of this quantity.

[14] Uses $B(\psi(2S) \to \gamma\chi_{c0}) = 9.33 \pm 0.14 \pm 0.61$ % from ATHAR 04, $\psi(2S)$ mass and width from PDG 04, and $\Gamma_{ee}(\psi(2S)) = 2.54 \pm 0.03 \pm 0.11$ keV from ADAM 06.

[15] Using $\Gamma_{ee}(\psi(2S)) = (2.54 \pm 0.03 \pm 0.11)$ keV from ADAM 06 and taking $\sigma(e^+e^- \to D\overline{D})$ from HE 05 for $\sigma(e^+e^- \to \psi(3770))$.

[16] Averages the two measurements from COAN 06A and BRIERE 06.

[17] Uses $B(\psi(2S) \to \gamma\chi_{c1}) = 9.07 \pm 0.11 \pm 0.54$ % from ATHAR 04, $\psi(2S)$ mass and width from PDG 04, and $\Gamma_{ee}(\psi(2S)) = 2.54 \pm 0.03 \pm 0.11$ keV from ADAM 06.

[18] Using $B(\psi(3770) \to J/\psi\pi^+\pi^-) = (1.89 \pm 0.20 \pm 0.20) \times 10^{-3}$ from ADAM 06.

[19] Not independent of other results in BRIERE 06.

[20] Uses $B(\psi(2S) \to \gamma\chi_{c2}) = 9.22 \pm 0.11 \pm 0.46$ % from ATHAR 04, $\psi(2S)$ mass and width from PDG 04, and $\Gamma_{ee}(\psi(2S)) = 2.54 \pm 0.03 \pm 0.11$ keV from ADAM 06.

[21] Using $\sigma(e^+e^- \to \psi(3770) \to \text{hadrons}) = (6.38 \pm 0.08^{+0.41}_{-0.30})$ nb from BESSON 06 and $B(K^0_S \to \pi^+\pi^-) = 0.6895 \pm 0.0014$.

[22] Using $B(K^0_S \to \pi^+\pi^-) = 0.6860 \pm 0.0027$.

[23] Using $\sigma_{tot}(e^+e^- \to \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.

[24] Assuming that interference effects between resonance and continuum can be neglected.

[25] Using $\sigma^{obs}(e^+e^- \to \psi(3770)) = 7.15 \pm 0.38$ nb.

[26] Using $\sigma^{\text{obs}} = 7.15 \pm 0.27 \pm 0.27$ nb and neglecting interference.

[27] Comparing $\sigma(e^+e^- \to \phi\eta)$ at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, and using $\sigma(\psi(3770) \to D\overline{D}) = 6.39 \pm 0.20$ nb.

RADIATIVE DECAYS

$\Gamma(\gamma\pi^0)/\Gamma_{total}$ Γ_{89}/Γ

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*		*TECN*	*COMMENT*
<2	90	PEDLAR	09	CLE3	$\psi(2S) \to \gamma X$

$\Gamma(\gamma\eta)/\Gamma_{total}$ Γ_{90}/Γ

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*		*TECN*	*COMMENT*
<1.5	90	[28] PEDLAR	09	CLE3	$\psi(2S) \to \gamma X$

$\Gamma(\gamma\eta')/\Gamma_{\text{total}}$ Γ_{91}/Γ

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*		*TECN*	*COMMENT*
<1.8	90	[28] PEDLAR	09	CLE3	$\psi(2S) \rightarrow \gamma X$

[28] Assuming maximal destructive interference between $\psi(3770)$ and continuum sources.

$\psi(3770)$ REFERENCES

BESSON	10	PRL 104 159901 (errat.)	D. Besson *et al.*	(CLEO Collab.)
ABLIKIM	09C	EPJ C64 243	M. Ablikim *et al.*	(BES Collab.)
PEDLAR	09	PR D79 111101	T.K. Pedlar *et al.*	(CLEO Collab.)
ABLIKIM	08B	PL B659 74	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	08D	PL B660 315	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	08M	PL B670 179	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	08N	PL B670 184	M. Ablikim *et al.*	(BES Collab.)
AUBERT	08B	PR D77 011102R	B. Aubert *et al.*	(BABAR Collab.)
BRODZICKA	08	PRL 100 092001	J. Brodzicka *et al.*	(BELLE Collab.)
PAKHLOVA	08	PR D77 011103R	G. Pakhlova *et al.*	(BELLE Collab.)
ABLIKIM	07B	PL B650 111	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	07E	PL B652 238	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	07F	PL B656 30	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	07I	EPJ C52 805	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	07K	PR D76 122002	M. Ablikim *et al.*	(BES Collab.)
AUBERT	07BE	PR D76 111105R	B. Aubert *et al.*	(BABAR Collab.)
DOBBS	07	PR D76 112001	S. Dobbs *et al.*	(CLEO Collab.)
ABLIKIM	06L	PRL 97 121801	M. Ablikim *et al.*	(BES Collab.)
ABLIKIM	06N	PL B641 145	M. Ablikim *et al.*	(BES Collab.)
ADAM	06	PRL 96 082004	N.E. Adam *et al.*	(CLEO Collab.)
ADAMS	06	PR D73 012002	G.S. Adams *et al.*	(CLEO Collab.)
BESSON	06	PRL 96 092002	D. Besson *et al.*	(CLEO Collab.)
Also		PRL 104 159901 (errat.)	D. Besson *et al.*	(CLEO Collab.)
BRIERE	06	PR D74 031106R	R.A. Briere *et al.*	(CLEO Collab.)
COAN	06A	PRL 96 182002	T.E. Coan *et al.*	(CLEO Collab.)
CRONIN-HEN...	06	PR D74 012005	D. Cronin-Hennessy *et al.*	(CLEO Collab.)
HUANG	06A	PRL 96 032003	G.S. Huang *et al.*	(CLEO Collab.)
BAI	05	PL B605 63	J.Z. Bai *et al.*	(BES Collab.)
HE	05	PRL 95 121801	Q. He *et al.*	(CLEO Collab.)
Also		PRL 96 199903 (errat.)	Q. He *et al.*	(CLEO Collab.)
ABLIKIM	04F	PR D70 077101	M. Ablikim *et al.*	(BES Collab.)
ATHAR	04	PR D70 112002	S.B. Athar *et al.*	(CLEO Collab.)
CHISTOV	04	PRL 93 051803	R. Chistov *et al.*	(BELLE Collab.)
PDG	04	PL B592 1	S. Eidelman *et al.*	(PDG Collab.)
BAI	02C	PRL 88 101802	J.Z. Bai *et al.*	(BES Collab.)
ADLER	88C	PRL 60 89	J. Adler *et al.*	(Mark III Collab.)
SCHINDLER	80	PR D21 2716	R.H. Schindler *et al.*	(Mark II Collab.)
BACINO	78	PRL 40 671	W.J. Bacino *et al.*	(SLAC, UCLA, UCI)
RAPIDIS	77	PRL 39 526	P.A. Rapidis *et al.*	(LGW Collab.)