$\psi(3770)$

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

$\psi(3770)$ MASS

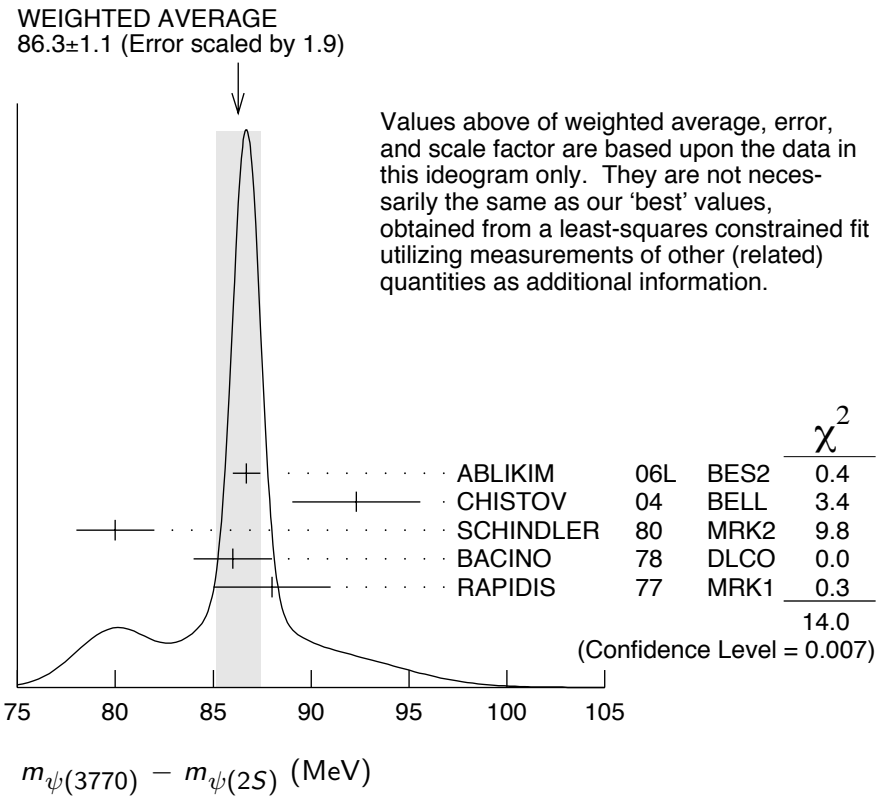
From $m_{\psi(2S)}$ and mass difference below.

VALUE (MeV)	*DOCUMENT ID*
3772.4±1.1 OUR FIT Error includes scale factor of 1.8.	

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

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
86.3±1.1 OUR FIT Error includes scale factor of 1.8.					
86.3±1.1 OUR AVERAGE Error includes scale factor of 1.9. See the ideogram below.					
86.7±0.7		ABLIKIM	06L	BES2	$e^+e^- \to$ hadrons
92.3±3.0±1.3	34	CHISTOV	04	BELL	$B^+ \to \psi(3770)K^+$
80 ±2		SCHINDLER	80	MRK2	e^+e^-
86 ±2		[1] BACINO	78	DLCO	e^+e^-
88 ±3		RAPIDIS	77	MRK1	e^+e^-

[1] SPEAR $\psi(2S)$ mass subtracted (see SCHINDLER 80).



ψ(3770) WIDTH

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
25.2±1.8 OUR FIT				
26.3±1.9 OUR AVERAGE				
26.9±2.4±0.3	ABLIKIM	06L	BES2	$e^+e^- \rightarrow$ hadrons
24 ±5	SCHINDLER	80	MRK2	e^+e^-
24 ±5	BACINO	78	DLCO	e^+e^-
28 ±5	RAPIDIS	77	MRK1	e^+e^-

ψ(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	$D\overline{D}$	(85 ±5) %	
Γ_2	$D^0\overline{D}^0$	(48.7 ±3.2) %	
Γ_3	D^+D^-	(36.1 ±2.8) %	
Γ_4	$J/\psi\pi^+\pi^-$	(1.93±0.28) $\times 10^{-3}$	
Γ_5	$J/\psi\pi^0\pi^0$	(8.0 ±3.0) $\times 10^{-4}$	
Γ_6	$J/\psi\eta$	(9 ±4) $\times 10^{-4}$	
Γ_7	$J/\psi\pi^0$	< 2.8 $\times 10^{-4}$	CL=90%
Γ_8	$\gamma\chi_{c0}$	(7.3 ±0.9) $\times 10^{-3}$	
Γ_9	$\gamma\chi_{c1}$	(2.9 ±0.6) $\times 10^{-3}$	
Γ_{10}	$\gamma\chi_{c2}$	< 9 $\times 10^{-4}$	CL=90%
Γ_{11}	e^+e^-	(9.8 ±1.2) $\times 10^{-6}$	S=1.1
Γ_{12}	$K^0_S K^0_L$	< 1.2 $\times 10^{-5}$	CL=90%
Γ_{13}	$2(\pi^+\pi^-)$	< 1.12 $\times 10^{-3}$	CL=90%
Γ_{14}	$2(\pi^+\pi^-)\pi^0$	< 1.06 $\times 10^{-3}$	CL=90%
Γ_{15}	$\eta\pi^+\pi^-$	< 1.24 $\times 10^{-3}$	CL=90%
Γ_{16}	$\omega\pi^+\pi^-$	< 6.0 $\times 10^{-4}$	CL=90%
Γ_{17}	$\eta 3\pi$	< 1.34 $\times 10^{-3}$	CL=90%
Γ_{18}	$\eta' 3\pi$	< 2.44 $\times 10^{-3}$	CL=90%
Γ_{19}	$K^+K^-\pi^+\pi^-$	< 9.0 $\times 10^{-4}$	CL=90%
Γ_{20}	$\phi\pi^+\pi^-$	< 4.1 $\times 10^{-4}$	CL=90%
Γ_{21}	$\phi f_0(980)$	< 4.5 $\times 10^{-4}$	CL=90%
Γ_{22}	$K^+K^-\pi^+\pi^-\pi^0$	< 2.36 $\times 10^{-3}$	CL=90%
Γ_{23}	ηK^+K^-	< 4.1 $\times 10^{-4}$	CL=90%
Γ_{24}	ωK^+K^-	< 3.4 $\times 10^{-4}$	CL=90%
Γ_{25}	$2(K^+K^-)$	< 6.0 $\times 10^{-4}$	CL=90%
Γ_{26}	ϕK^+K^-	< 7.5 $\times 10^{-4}$	CL=90%

Γ_{27}	$2(K^+K^-)\pi^0$	$<$ 2.9	$\times 10^{-4}$	CL=90%
Γ_{28}	$p\overline{p}\pi^+\pi^-$	$<$ 5.8	$\times 10^{-4}$	CL=90%
Γ_{29}	$p\overline{p}\pi^+\pi^-\pi^0$	$<$ 1.85	$\times 10^{-3}$	CL=90%
Γ_{30}	$\eta p\overline{p}$	$<$ 5.4	$\times 10^{-4}$	CL=90%
Γ_{31}	$\omega p\overline{p}$	$<$ 2.9	$\times 10^{-4}$	CL=90%
Γ_{32}	$p\overline{p}K^+K^-$	$<$ 3.2	$\times 10^{-4}$	CL=90%
Γ_{33}	$\phi p\overline{p}$	$<$ 1.3	$\times 10^{-4}$	CL=90%
Γ_{34}	$\Lambda\overline{\Lambda}$	$<$ 1.2	$\times 10^{-4}$	CL=90%
Γ_{35}	$\Lambda\overline{\Lambda}\pi^+\pi^-$	$<$ 2.5	$\times 10^{-4}$	CL=90%
Γ_{36}	$\Lambda\overline{p}K^+$	$<$ 2.8	$\times 10^{-4}$	CL=90%
Γ_{37}	$\Lambda\overline{p}K^+\pi^+\pi^-$	$<$ 6.3	$\times 10^{-4}$	CL=90%
Γ_{38}	$\phi\eta$	(3.1 $\pm$0.7)	$\times 10^{-4}$	
Γ_{39}	$\pi^+\pi^-\pi^0$	not seen		
Γ_{40}	$\rho\pi$	not seen		
Γ_{41}	$\omega\pi^0$	not seen		
Γ_{42}	$\phi\pi^0$	not seen		
Γ_{43}	$\rho\eta$	not seen		
Γ_{44}	$\omega\eta$	not seen		
Γ_{45}	$\rho\eta'$	not seen		
Γ_{46}	$\omega\eta'$	not seen		
Γ_{47}	$\phi\eta'$	not seen		
Γ_{48}	$K^{*0}\overline{K}^0$	not seen		
Γ_{49}	$K^{*+}K^-$	not seen		
Γ_{50}	$b_1\pi$	not seen		

ψ(3770) PARTIAL WIDTHS

$\Gamma(e^+e^-)$ Γ_{11}

VALUE (keV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
$0.247^{+0.028}_{-0.025}$ OUR FIT Error includes scale factor of 1.1.					
$0.219^{+0.028}_{-0.022}$ OUR AVERAGE					
$0.204\pm0.003^{+0.041}_{-0.027}$	1.427M	[2] BESSON	06	CLEO	$e^+e^-\to$ hadrons
0.276 ± 0.050		SCHINDLER	80	MRK2	e^+e^-
$0.18\ \pm0.06$		BACINO	78	DLCO	e^+e^-
• • • We do not use the following data for averages, fits, limits, etc. • • •					
$0.37\ \pm0.09$		[3] RAPIDIS	77	MRK1	e^+e^-

[2] BESSON 06 measure $\sigma(e^+e^-\to\ \psi(3770)\to$ hadrons) $= 6.38\pm0.08^{+0.41}_{-0.30}$ nb at $\sqrt{s}=3773\pm1$ MeV, and obtain Γ_{ee} from the Born-level cross section calculated using $\psi(3770)$ mass and width from our 2004 edition.

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

$\psi(3770)$ BRANCHING RATIOS

$\Gamma(D\overline{D})/\Gamma_{total}$ Γ_1/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
0.85 ±0.05 OUR AVERAGE				
0.836±0.073±0.042	ABLIKIM	06L	BES2	$e^+e^- \to D\overline{D}$
0.855±0.017±0.058	[4] ABLIKIM	06N	BES2	$e^+e^- \to D\overline{D}$

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

VALUE	DOCUMENT ID		TECN	COMMENT
0.487±0.032 OUR AVERAGE				
0.467±0.047±0.023	ABLIKIM	06L	BES2	$e^+e^- \to D^0\overline{D}^0$
0.499±0.013±0.038	[4] ABLIKIM	06N	BES2	$e^+e^- \to D^0\overline{D}^0$

$\Gamma(D^+D^-)/\Gamma_{total}$ Γ_3/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
0.361±0.028 OUR AVERAGE				
0.369±0.037±0.028	ABLIKIM	06L	BES2	$e^+e^- \to D^+D^-$
0.357±0.011±0.034	[4] 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
1.28±0.14 OUR AVERAGE					
1.27±0.12±0.08		ABLIKIM	06L	BES2	$e^+e^- \to D\overline{D}$
2.43±1.50±0.43	34	[5] CHISTOV	04	BELL	$B^+ \to \psi(3770)K^+$

$\Gamma(J/\psi\pi^+\pi^-)/\Gamma_{total}$ 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	$e^+e^- \to \psi(3770)$

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

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

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

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

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

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

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

VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID		TECN	COMMENT
7.3±0.7±0.6		274 ± 27	[6] 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		[7] 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		[8] 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	[9] BRIERE	06	CLEO	$e^+e^- \to \psi(3770) \to \gamma +$ hadrons
2.8±0.5±0.4	53 ± 10	[7] 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	[10] 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	[11] 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	[7] 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	[12] 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	[11] 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
0.98±0.12 OUR FIT Error includes scale factor of 1.1.				
1.3 ±0.2	RAPIDIS	77	MRK1	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	[13] CRONIN-HEN..	06	CLEO	$e^+e^- \to \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<21	90	[14] 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	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

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

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<10.6	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

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

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<12.4	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

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

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<6.0	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\eta 3\pi)/\Gamma_{total}$ **Γ_{17}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<13.4	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\eta' 3\pi)/\Gamma_{total}$ **Γ_{18}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<24.4	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(K^+K^-\pi^+\pi^-)/\Gamma_{total}$ **Γ_{19}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<9.0	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

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

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<4.1	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\phi f_0(980))/\Gamma_{total}$ **Γ_{21}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<4.5	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

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

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<23.6	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\eta K^+K^-)/\Gamma_{total}$ **Γ_{23}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<4.1	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\omega K^+K^-)/\Gamma_{total}$ **Γ_{24}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<3.4	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(2(K^+K^-))/\Gamma_{total}$ **Γ_{25}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<6.0	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

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

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<7.5	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(2(K^+K^-)\pi^0)/\Gamma_{total}$ **Γ_{27}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<2.9	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(p\overline{p}\pi^+\pi^-)/\Gamma_{total}$ **Γ_{28}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<5.8	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(p\overline{p}\pi^+\pi^-\pi^0)/\Gamma_{total}$ **Γ_{29}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<18.5	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\eta p\overline{p})/\Gamma_{total}$ **Γ_{30}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<5.4	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\omega p\overline{p})/\Gamma_{total}$ **Γ_{31}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<2.9	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(p\overline{p}K^+K^-)/\Gamma_{total}$ **Γ_{32}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<3.2	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\phi p\overline{p})/\Gamma_{total}$ **Γ_{33}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<1.3	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\overline{\Lambda})/\Gamma_{total}$ **Γ_{34}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<1.2	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\overline{\Lambda}\pi^+\pi^-)/\Gamma_{total}$ **Γ_{35}/Γ**

VALUE (units 10^{-4})	CL%	DOCUMENT ID		TECN	COMMENT
<2.5	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\overline{p}K^+)/\Gamma_{total}$ Γ_{36}/Γ

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*		*TECN*	*COMMENT*
<2.8	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\Lambda\overline{p}K^+\pi^+\pi^-)/\Gamma_{total}$ Γ_{37}/Γ

VALUE (units 10^{-4})	*CL%*	*DOCUMENT ID*		*TECN*	*COMMENT*
<6.3	90	[15] HUANG	06A	CLEO	$e^+e^- \to \psi(3770)$

$\Gamma(\phi\eta)/\Gamma_{total}$ Γ_{38}/Γ

VALUE (units 10^{-4})	*DOCUMENT ID*		*TECN*	*COMMENT*
3.1±0.6±0.3	[16] ADAMS	06	CLEC	3.773 $e^+e^- \to \phi\eta$

[4] 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.

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

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

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

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

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

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

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

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

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

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

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

[16] 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 ± 0.20 nb.

$\psi(3770)$ REFERENCES

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.)
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.)
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.*	
ADLER	88C	PRL 60 89	J. Adler *et al.*	(Mark III Collab.)
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