

$\psi(3770)$

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

$\psi(3770)$ MASS

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
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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 $e^+ e^- \rightarrow$ hadrons

3775.5 ± 2.4 ± 0.5 57 AUBERT 08B BABR $B \rightarrow D\bar{D}K$

3776 ± 5 ± 4 68 BRODZICKA 08 BELL $B^+ \rightarrow D^0\bar{D}^0 K^+$

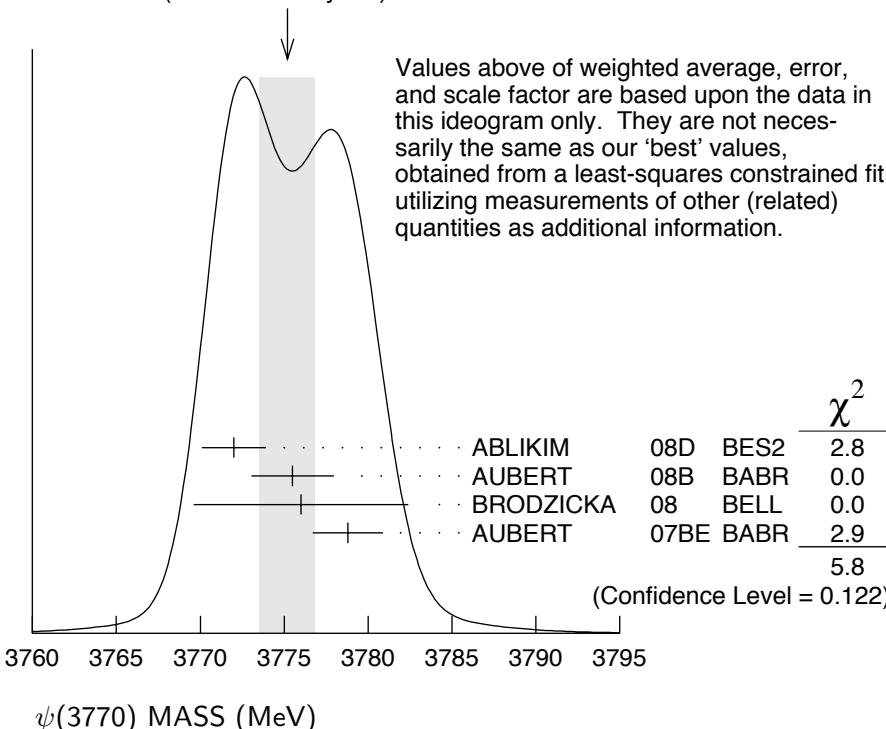
3778.8 ± 1.9 ± 0.9 AUBERT 07BE BABR $e^+ e^- \rightarrow D\bar{D}\gamma$

• • • 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 $\delta = 0^\circ$.

WEIGHTED AVERAGE
3775.2±1.7 (Error scaled by 1.4)



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

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

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
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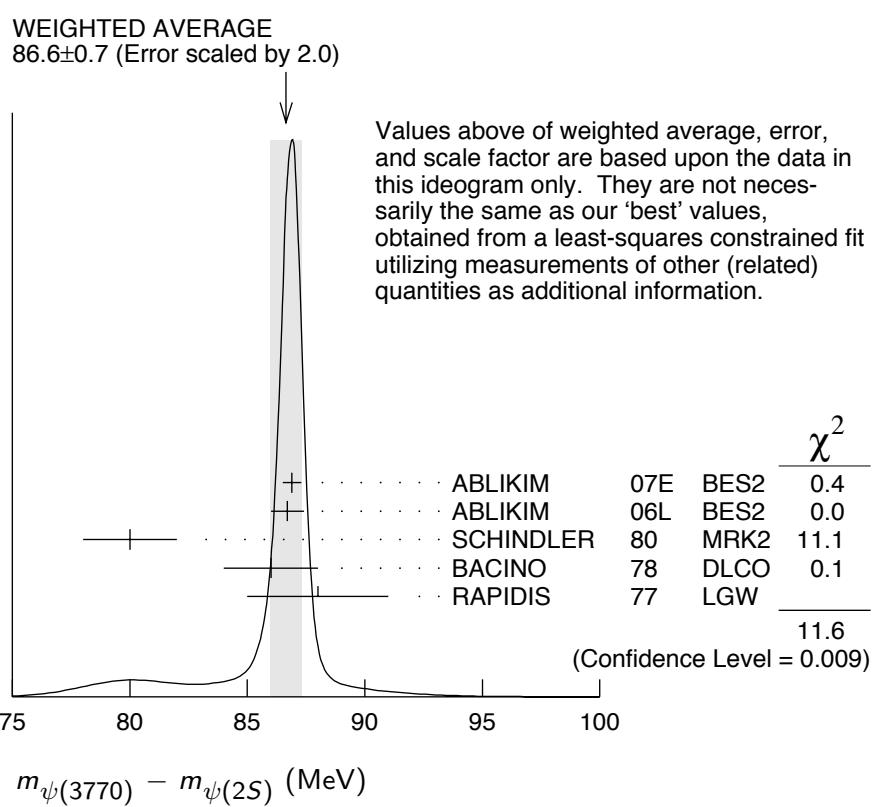
86.83±0.35 OUR FIT Error includes scale factor of 1.1.

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	$e^+ e^- \rightarrow$ hadrons
86.7 ± 0.7	ABLIKIM	06L BES2	$e^+ e^- \rightarrow$ 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
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27.3± 1.0 OUR FIT

27.6± 1.0 OUR AVERAGE

30.4± 8.5	4 ABLIKIM	08D BES2	$e^+ e^- \rightarrow$ hadrons
27 ± 10 ± 5	68 BRODZICKA	08 BELL	$B^+ \rightarrow D^0 \bar{D}^0 K^+$
28.5± 1.2±0.2	ABLIKIM	07E BES2	$e^+ e^- \rightarrow$ hadrons
23.5± 3.7±0.9	AUBERT	07BE BABR	$e^+ e^- \rightarrow D \bar{D} \gamma$

$26.9 \pm 2.4 \pm 0.3$	ABLIKIM	06L	BES2	$e^+ e^- \rightarrow \text{hadrons}$
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 $D\bar{D}$, $\psi(3770)$ 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
$\Gamma_1 D\bar{D}$	(85.3 \pm 3.2) %	
$\Gamma_2 D^0\bar{D}^0$	(48.7 \pm 3.2) %	
$\Gamma_3 D^+D^-$	(36.1 \pm 2.8) %	
$\Gamma_4 J/\psi\pi^+\pi^-$	(1.93 \pm 0.28) $\times 10^{-3}$	
$\Gamma_5 J/\psi\pi^0\pi^0$	(8.0 \pm 3.0) $\times 10^{-4}$	
$\Gamma_6 J/\psi\eta$	(9 \pm 4) $\times 10^{-4}$	
$\Gamma_7 J/\psi\pi^0$	< 2.8 $\times 10^{-4}$	CL=90%
$\Gamma_8 \gamma\chi_{c0}$	(7.3 \pm 0.9) $\times 10^{-3}$	
$\Gamma_9 \gamma\chi_{c1}$	(2.9 \pm 0.6) $\times 10^{-3}$	
$\Gamma_{10} \gamma\chi_{c2}$	< 9 $\times 10^{-4}$	CL=90%
$\Gamma_{11} e^+e^-$	(9.7 \pm 0.7) $\times 10^{-6}$	S=1.2
$\Gamma_{12} K_S^0 K_L^0$	< 1.2 $\times 10^{-5}$	CL=90%
$\Gamma_{13} 2(\pi^+\pi^-)$	< 1.12 $\times 10^{-3}$	CL=90%
$\Gamma_{14} 2(\pi^+\pi^-)\pi^0$	< 1.06 $\times 10^{-3}$	CL=90%
$\Gamma_{15} \omega\pi^+\pi^-$	< 6.0 $\times 10^{-4}$	CL=90%
$\Gamma_{16} 3(\pi^+\pi^-)$	< 9.1 $\times 10^{-3}$	
$\Gamma_{17} 3(\pi^+\pi^-)\pi^0$	< 1.37 %	
$\Gamma_{18} \eta\pi^+\pi^-$	< 1.24 $\times 10^{-3}$	CL=90%
$\Gamma_{19} \rho^0\pi^+\pi^-$	< 6.9 $\times 10^{-3}$	CL=90%
$\Gamma_{20} \eta 3\pi$	< 1.34 $\times 10^{-3}$	CL=90%
$\Gamma_{21} \eta 2(\pi^+\pi^-)$	< 2.43 %	
$\Gamma_{22} \eta' 3\pi$	< 2.44 $\times 10^{-3}$	CL=90%
$\Gamma_{23} K^+K^-\pi^+\pi^-$	< 9.0 $\times 10^{-4}$	CL=90%
$\Gamma_{24} \phi\pi^+\pi^-$	< 4.1 $\times 10^{-4}$	CL=90%
$\Gamma_{25} \phi\pi^0$	not seen	
$\Gamma_{26} \phi\eta$	(3.1 \pm 0.7) $\times 10^{-4}$	
$\Gamma_{27} 4(\pi^+\pi^-)$	< 1.67 %	CL=90%
$\Gamma_{28} 4(\pi^+\pi^-)\pi^0$	< 3.06 %	CL=90%

Γ_{29}	$\phi f_0(980)$	< 4.5	$\times 10^{-4}$	CL=90%
Γ_{30}	$K^+ K^- \pi^+ \pi^- \pi^0$	< 2.36	$\times 10^{-3}$	CL=90%
Γ_{31}	$K^+ K^- \rho^0 \pi^0$	< 8	$\times 10^{-4}$	CL=90%
Γ_{32}	$K^+ K^- \rho^+ \pi^-$	< 1.46	%	CL=90%
Γ_{33}	$\omega K^+ K^-$	< 3.4	$\times 10^{-4}$	CL=90%
Γ_{34}	$\phi \pi^+ \pi^- \pi^0$	< 3.8	$\times 10^{-3}$	CL=90%
Γ_{35}	$K^{*0} K^- \pi^+ \pi^0 + \text{c.c.}$	< 1.62	%	CL=90%
Γ_{36}	$K^{*+} K^- \pi^+ \pi^- + \text{c.c.}$	< 3.23	%	CL=90%
Γ_{37}	$K^+ K^- 2(\pi^+ \pi^-)$	< 1.03	%	CL=90%
Γ_{38}	$K^+ K^- 2(\pi^+ \pi^-) \pi^0$	< 3.60	%	CL=90%
Γ_{39}	$\eta K^+ K^-$	< 4.1	$\times 10^{-4}$	CL=90%
Γ_{40}	$\rho^0 K^+ K^-$	< 5.0	$\times 10^{-3}$	CL=90%
Γ_{41}	$2(K^+ K^-)$	< 6.0	$\times 10^{-4}$	CL=90%
Γ_{42}	$\phi K^+ K^-$	< 7.5	$\times 10^{-4}$	CL=90%
Γ_{43}	$2(K^+ K^-) \pi^0$	< 2.9	$\times 10^{-4}$	CL=90%
Γ_{44}	$2(K^+ K^-) \pi^+ \pi^-$	< 3.2	$\times 10^{-3}$	CL=90%
Γ_{45}	$K^{*0} K^- \pi^+ + \text{c.c.}$	< 9.7	$\times 10^{-3}$	CL=90%
Γ_{46}	$p \bar{p} \pi^0$	< 1.2	$\times 10^{-3}$	
Γ_{47}	$p \bar{p} \pi^+ \pi^-$	< 5.8	$\times 10^{-4}$	CL=90%
Γ_{48}	$\Lambda \bar{\Lambda}$	< 1.2	$\times 10^{-4}$	CL=90%
Γ_{49}	$p \bar{p} \pi^+ \pi^- \pi^0$	< 1.85	$\times 10^{-3}$	CL=90%
Γ_{50}	$\omega p \bar{p}$	< 2.9	$\times 10^{-4}$	CL=90%
Γ_{51}	$\Lambda \bar{\Lambda} \pi^0$	< 1.2	$\times 10^{-3}$	CL=90%
Γ_{52}	$p \bar{p} 2(\pi^+ \pi^-)$	< 2.6	$\times 10^{-3}$	CL=90%
Γ_{53}	$\eta p \bar{p}$	< 5.4	$\times 10^{-4}$	CL=90%
Γ_{54}	$\rho^0 p \bar{p}$	< 1.7	$\times 10^{-3}$	CL=90%
Γ_{55}	$p \bar{p} K^+ K^-$	< 3.2	$\times 10^{-4}$	CL=90%
Γ_{56}	$\phi p \bar{p}$	< 1.3	$\times 10^{-4}$	CL=90%
Γ_{57}	$\Lambda \bar{\Lambda} \pi^+ \pi^-$	< 2.5	$\times 10^{-4}$	CL=90%
Γ_{58}	$\Lambda \bar{p} K^+$	< 2.8	$\times 10^{-4}$	CL=90%
Γ_{59}	$\Lambda \bar{p} K^+ \pi^+ \pi^-$	< 6.3	$\times 10^{-4}$	CL=90%
Γ_{60}	$\pi^+ \pi^- \pi^0$	not seen		
Γ_{61}	$\rho \pi$	not seen		
Γ_{62}	$\omega \pi^0$	not seen		
Γ_{63}	$\rho \eta$	not seen		
Γ_{64}	$\omega \eta$	not seen		
Γ_{65}	$\rho \eta'$	not seen		
Γ_{66}	$\omega \eta'$	not seen		
Γ_{67}	$\phi \eta'$	not seen		
Γ_{68}	$K^{*0} \bar{K}^0$	not seen		
Γ_{69}	$K^{*+} K^-$	not seen		
Γ_{70}	$b_1 \pi$	not seen		

$\psi(3770)$ PARTIAL WIDTHS **$\Gamma(e^+e^-)$** **Γ_{11}**

<u>VALUE</u> (keV)	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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 \pm 0.05	5	ABLIKIM	08D BES2	$e^+e^- \rightarrow$ hadrons
0.277 \pm 0.011 \pm 0.013		ABLIKIM	07E BES2	$e^+e^- \rightarrow$ hadrons
$0.204 \pm 0.003^{+0.041}_{-0.027}$	1.427M	6 BESSON	06 CLEO	$e^+e^- \rightarrow$ hadrons
0.276 \pm 0.050		SCHINDLER	80 MRK2	e^+e^-
0.18 \pm 0.06		BACINO	78 DLCO	e^+e^-
• • • We do not use the following data for averages, fits, limits, etc. • • •				
0.37 \pm 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 measure $\sigma(e^+e^- \rightarrow \psi(3770) \rightarrow \text{hadrons}) = 6.38 \pm 0.08^{+0.41}_{-0.30}$ 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.

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

 $\psi(3770)$ BRANCHING RATIOS **$\Gamma(D\bar{D})/\Gamma_{\text{total}}$** **$\Gamma_1/\Gamma$**

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.853 ± 0.032 OUR AVERAGE			
0.849 \pm 0.056 \pm 0.018	8 ABLIKIM	08B BES2	$e^+e^- \rightarrow$ non- $D\bar{D}$
0.866 \pm 0.050 \pm 0.036	9 ABLIKIM	07K BES2	$e^+e^- \rightarrow$ non- $D\bar{D}$
0.836 \pm 0.073 \pm 0.042	ABLIKIM	06L BES2	$e^+e^- \rightarrow D\bar{D}$
0.855 \pm 0.017 \pm 0.058	10 ABLIKIM	06N BES2	$e^+e^- \rightarrow D\bar{D}$

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

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.487 ± 0.032 OUR AVERAGE			
0.467 \pm 0.047 \pm 0.023	ABLIKIM	06L BES2	$e^+e^- \rightarrow D^0\bar{D}^0$
0.499 \pm 0.013 \pm 0.038	10 ABLIKIM	06N BES2	$e^+e^- \rightarrow D^0\bar{D}^0$

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

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.361 ± 0.028 OUR AVERAGE			
0.369 \pm 0.037 \pm 0.028	ABLIKIM	06L BES2	$e^+e^- \rightarrow D^+D^-$
0.357 \pm 0.011 \pm 0.034	10 ABLIKIM	06N BES2	$e^+e^- \rightarrow D^+D^-$

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

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1.260 ± 0.021 OUR AVERAGE				
1.39 \pm 0.31 \pm 0.12		PAKHLOVA	08 BELL	$10.6 e^+e^- \rightarrow D\bar{D}\gamma$
1.78 \pm 0.33 \pm 0.24		AUBERT	07BE BABR	$e^+e^- \rightarrow D\bar{D}\gamma$
1.258 \pm 0.016 \pm 0.014		DOBBS	07 CLEO	$e^+e^- \rightarrow D\bar{D}$
1.27 \pm 0.12 \pm 0.08		ABLIKIM	06L BES2	$e^+e^- \rightarrow D\bar{D}$
2.43 \pm 1.50 \pm 0.43	34	11 CHISTOV	04 BELL	$B^+ \rightarrow \psi(3770)K^+$

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

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

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

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

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

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

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

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

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

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$7.3 \pm 0.7 \pm 0.6$		274 ± 27	12 BRIERE	06	CLEO $e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$

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

< 44	90	¹³ COAN	06A	CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$
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 $\Gamma(\gamma\chi_{c1})/\Gamma_{\text{total}}$ Γ_9/Γ

<u>VALUE (units 10^{-3})</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$2.9 \pm 0.5 \pm 0.4$				
14 BRIERE		06	CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}, \gamma\gamma J/\psi$

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

$3.9 \pm 1.4 \pm 0.6$	54 ± 17	15 BRIERE	06	CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$
$2.8 \pm 0.5 \pm 0.4$	53 ± 10	13 COAN	06A	CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$

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

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$1.49 \pm 0.31 \pm 0.26$				
16 COAN		06A	CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$

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

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
• • • We do not use the following data for averages, fits, limits, etc. • • •			
2.5 ± 0.6	17 BRIERE	06	CLEO $e^+ e^- \rightarrow \psi(3770)$

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

<u>VALUE</u> (units 10^{-3})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{10}/Γ
<0.9	90	13 COAN	06A CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma\gamma J/\psi$	

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

<2.0	90	18 BRIERE	06 CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$	
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 $\Gamma(\gamma\chi_{c0})/\Gamma(\gamma\chi_{c2})$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_8/Γ_{10}
>8	90	17 BRIERE	06 CLEO	$e^+ e^- \rightarrow \psi(3770)$	

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

<u>VALUE</u> (units 10^{-5})	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{11}/Γ
0.97 ± 0.07 OUR FIT	Error includes scale factor of 1.2.			
1.3 ± 0.2	RAPIDIS	77 LGW	$e^+ e^-$	

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

<u>VALUE</u> (units 10^{-5})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{12}/Γ
< 1.2	90	19 CRONIN-HEN..06	CLEO	$e^+ e^- \rightarrow \psi(3770)$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					

<21	90	20 ABLIKIM	04F BES	$e^+ e^- \rightarrow \psi(3770)$	
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 $\Gamma(2(\pi^+ \pi^-))/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{13}/Γ
<11.2	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					

<48	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	
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 $\Gamma(2(\pi^+ \pi^-)\pi^0)/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{14}/Γ
<10.6	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					

<62	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	
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 $\Gamma(\omega\pi^+\pi^-)/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{15}/Γ
< 6.0	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					

<55	90	24 ABLIKIM	07I BES2	$3.77 e^+ e^-$	
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 $\Gamma(3(\pi^+ \pi^-))/\Gamma_{\text{total}}$

<u>VALUE</u> (units 10^{-4})	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{16}/Γ
<91	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	

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

<u>VALUE (units 10^{-4})</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{17}/Γ
<137	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	

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

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{18}/Γ
<12.4	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	

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

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{19}/Γ
<6.9	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$	

 $\Gamma(\eta 3\pi)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{20}/Γ
<13.4	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	

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

<u>VALUE (units 10^{-4})</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{21}/Γ
<243	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	

 $\Gamma(\eta' 3\pi)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{22}/Γ
<24.4	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	

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

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{23}/Γ
< 9.0	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	

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

<48	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	
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 $\Gamma(\phi\pi^+\pi^-)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{24}/Γ
< 4.1	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	

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

<16	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	
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 $\Gamma(\phi\pi^0)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-4})</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{25}/Γ
<5	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	

 $\Gamma(\phi\eta)/\Gamma_{\text{total}}$

<u>VALUE (units 10^{-4})</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_{26}/Γ
3.1±0.6±0.3	25 ADAMS	06 CLEO	$3.773 e^+ e^- \rightarrow \phi\eta$	

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

<19	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	
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$\Gamma(4(\pi^+\pi^-))/\Gamma_{\text{total}}$ Γ_{27}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<16.7	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(4(\pi^+\pi^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{28}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<30.6	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(\phi f_0(980))/\Gamma_{\text{total}}$ Γ_{29}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<4.5	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(K^+K^-\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$ Γ_{30}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 23.6	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

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

<111	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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 $\Gamma(K^+K^-\rho^0\pi^0)/\Gamma_{\text{total}}$ Γ_{31}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<8	90	24 ABLIKIM	07I BES2	3.77 $e^+ e^-$

 $\Gamma(K^+K^-\rho^+\pi^-)/\Gamma_{\text{total}}$ Γ_{32}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<146	90	24 ABLIKIM	07I BES2	3.77 $e^+ e^-$

 $\Gamma(\omega K^+K^-)/\Gamma_{\text{total}}$ Γ_{33}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 3.4	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

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

<66	90	24 ABLIKIM	07I BES2	3.77 $e^+ e^-$
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 $\Gamma(\phi\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$ Γ_{34}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<38	90	24 ABLIKIM	07I BES2	3.77 $e^+ e^-$

 $\Gamma(K^{*0}K^-\pi^+\pi^0 + \text{c.c.})/\Gamma_{\text{total}}$ Γ_{35}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<162	90	24 ABLIKIM	07I BES2	3.77 $e^+ e^-$

 $\Gamma(K^{*+}K^-\pi^+\pi^- + \text{c.c.})/\Gamma_{\text{total}}$ Γ_{36}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<323	90	24 ABLIKIM	07I BES2	3.77 $e^+ e^-$

$\Gamma(K^+ K^- 2(\pi^+ \pi^-))/\Gamma_{\text{total}}$ Γ_{37}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<10.3	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(K^+ K^- 2(\pi^+ \pi^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{38}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<36.0	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(\eta K^+ K^-)/\Gamma_{\text{total}}$ Γ_{39}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<4.1	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(\rho^0 K^+ K^-)/\Gamma_{\text{total}}$ Γ_{40}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<5.0	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

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

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 6.0	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

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

<17	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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 $\Gamma(\phi K^+ K^-)/\Gamma_{\text{total}}$ Γ_{42}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 7.5	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

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

<24	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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 $\Gamma(2(K^+ K^-)\pi^0)/\Gamma_{\text{total}}$ Γ_{43}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 2.9	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

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

<46	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$
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 $\Gamma(2(K^+ K^-)\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{44}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<3.2	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(K^{*0} K^- \pi^+ + \text{c.c.})/\Gamma_{\text{total}}$ Γ_{45}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<9.7	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(p\bar{p}\pi^0)/\Gamma_{\text{total}}$ Γ_{46}/Γ

<u>VALUE (units 10^{-4})</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<12	22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(p\bar{p}\pi^+\pi^-)/\Gamma_{\text{total}}$ Γ_{47}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 5.8	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<16		22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(\Lambda\bar{\Lambda})/\Gamma_{\text{total}}$ Γ_{48}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.2	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<4	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(p\bar{p}\pi^+\pi^-\pi^0)/\Gamma_{\text{total}}$ Γ_{49}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<18.5	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<73		22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(\omega p\bar{p})/\Gamma_{\text{total}}$ Γ_{50}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 2.9	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<30	90	24 ABLIKIM	07I BES2	$3.77 e^+ e^-$

 $\Gamma(\Lambda\bar{\Lambda}\pi^0)/\Gamma_{\text{total}}$ Γ_{51}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<12	90	24 ABLIKIM	07I BES2	$3.77 e^+ e^-$

 $\Gamma(p\bar{p}2(\pi^+\pi^-))/\Gamma_{\text{total}}$ Γ_{52}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<2.6	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(\eta p\bar{p})/\Gamma_{\text{total}}$ Γ_{53}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<5.4	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(\rho^0 p\bar{p})/\Gamma_{\text{total}}$ Γ_{54}/Γ

<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<1.7	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$

 $\Gamma(p\bar{p}K^+K^-)/\Gamma_{\text{total}}$ Γ_{55}/Γ

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 3.2	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$
$\bullet \bullet \bullet$ We do not use the following data for averages, fits, limits, etc. $\bullet \bullet \bullet$				
<11		22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(\phi p\bar{p})/\Gamma_{\text{total}}$

<i>VALUE</i> (units 10^{-4})	<i>CL%</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>	Γ_{56}/Γ
<1.3	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<9		22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$	

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

<i>VALUE</i> (units 10^{-4})	<i>CL%</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>	Γ_{57}/Γ
< 2.5	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<39	90	22,23 ABLIKIM	07F BES2	$e^+ e^- \rightarrow \psi(3770)$	

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

<i>VALUE</i> (units 10^{-4})	<i>CL%</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>	Γ_{58}/Γ
<2.8	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	

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

<i>VALUE</i> (units 10^{-4})	<i>CL%</i>	<i>DOCUMENT ID</i>	<i>TECN</i>	<i>COMMENT</i>	Γ_{59}/Γ
<6.3	90	21 HUANG	06A CLEO	$e^+ e^- \rightarrow \psi(3770)$	

⁸ Neglecting interference.⁹ Using $\sigma^{obs} = 7.07 \pm 0.58$ nb and neglecting interference.¹⁰ From a measurement of $\sigma(e^+ e^- \rightarrow D\bar{D})$ at $\sqrt{s} = 3773$ MeV, using the $\psi(3770)$ resonance parameters measured by ABLIKIM 06L.¹¹ See ADLER 88C for older measurements of this quantity.¹² Uses $B(\psi(2S) \rightarrow \gamma\chi_{c0}) = 9.33 \pm 0.14 \pm 0.61$ % 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 06.¹³ Using $\Gamma_{ee}(\psi(2S)) = (2.54 \pm 0.03 \pm 0.11)$ keV from ADAM 06 and taking $\sigma(e^+ e^- \rightarrow D\bar{D})$ from HE 05 for $\sigma(e^+ e^- \rightarrow \psi(3770))$.¹⁴ Averages the two measurements from COAN 06A and BRIERE 06.¹⁵ Uses $B(\psi(2S) \rightarrow \gamma\chi_{c1}) = 9.07 \pm 0.11 \pm 0.54$ % 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 06.¹⁶ Using $B(\psi(3770) \rightarrow J/\psi\pi^+\pi^-) = (1.89 \pm 0.20 \pm 0.20) \times 10^{-3}$ from ADAM 06.¹⁷ Not independent of other results in BRIERE 06.¹⁸ Uses $B(\psi(2S) \rightarrow \gamma\chi_{c2}) = 9.22 \pm 0.11 \pm 0.46$ % 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 06.¹⁹ Using $\sigma(e^+ e^- \rightarrow \psi(3770) \rightarrow \text{hadrons}) = (6.38 \pm 0.08^{+0.41}_{-0.30})$ nb from BESSON 06 and $B(K_S^0 \rightarrow \pi^+\pi^-) = 0.6895 \pm 0.0014$.²⁰ Using $B(K_S^0 \rightarrow \pi^+\pi^-) = 0.6860 \pm 0.0027$.²¹ Using $\sigma_{tot}(e^+ e^- \rightarrow \psi(3770)) = 7.9 \pm 0.6$ nb at the resonance.²² Assuming that interference effects between resonance and continuum can be neglected.²³ Using $\sigma^{obs}(e^+ e^- \rightarrow \psi(3770)) = 7.15 \pm 0.38$ nb.²⁴ Using $\sigma^{obs} = 7.15 \pm 0.27 \pm 0.27$ nb and neglecting interference.²⁵ Comparing $\sigma(e^+ e^- \rightarrow \phi\eta)$ at $\sqrt{s} = 3.773$ GeV and $\sqrt{s} = 3.671$ GeV, and using $\sigma(\psi(3770) \rightarrow D\bar{D}) = 6.39 \pm 0.20$ nb.

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