

$\psi(3770)$

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

$\psi(3770)$ 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.

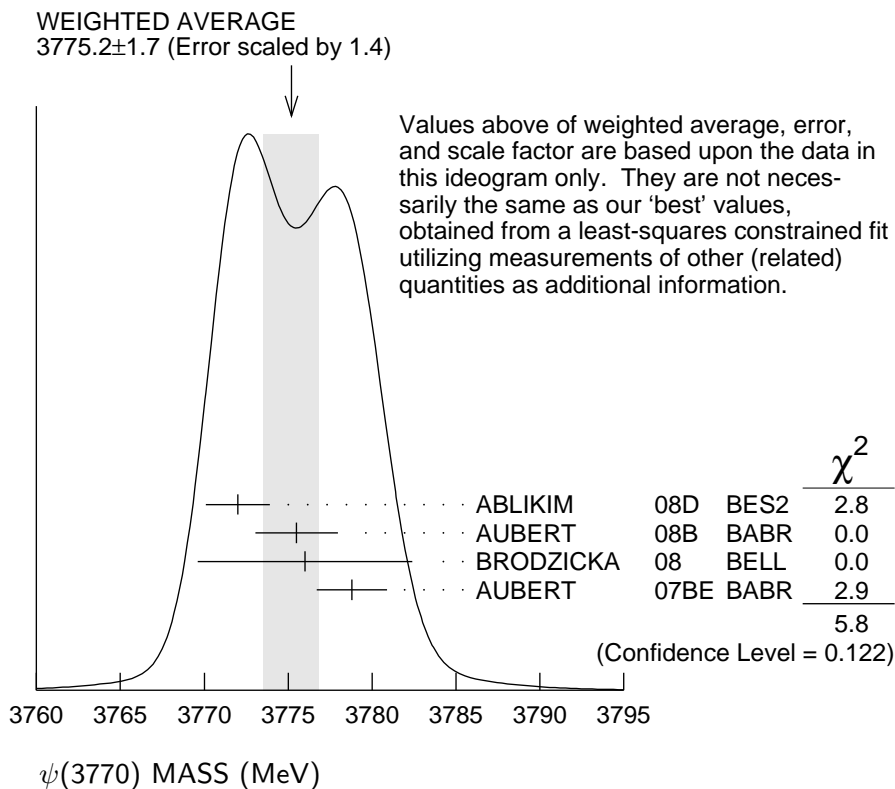
3775.2 ± 1.7 OUR AVERAGE Error includes scale factor of 1.4. See the ideogram below.

3772.0 ± 1.9		¹ ABLIKIM	08D BES2	$e^+e^- \rightarrow \text{hadrons}$
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
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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 $\delta = 0^\circ$.



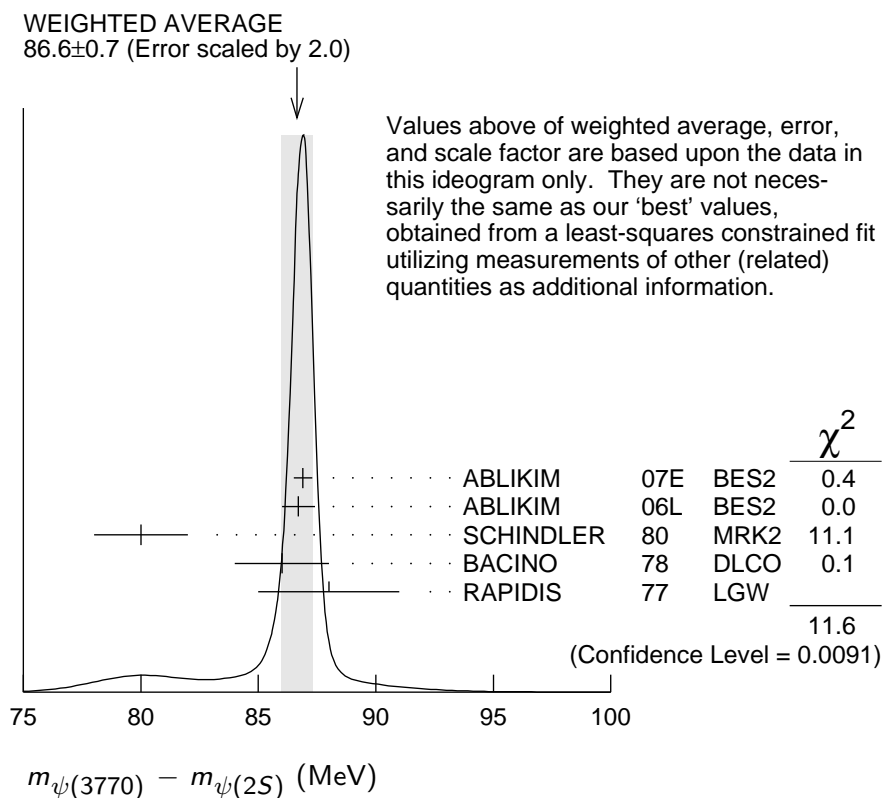
$m_{\psi(3770)} - m_{\psi(2S)}$

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 $e^+e^- \rightarrow$ 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
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 ± 2.4 ± 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
Γ_1 $D\bar{D}$	(85.3 ± 3.2) %	
Γ_2 $D^0\bar{D}^0$	(48.7 ± 3.2) %	
Γ_3 D^+D^-	(36.1 ± 2.8) %	
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} $K_S^0 K_L^0$	< 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} $\eta3\pi$	< 1.34 × 10 ⁻³	CL=90%
Γ_{24} $\eta2(\pi^+\pi^-)$	< 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}	$K^{*0}K^-\pi^+\pi^0 + \text{c.c.}$	< 1.62	% CL=90%
Γ_{40}	$K^{*+}K^-\pi^+\pi^- + \text{c.c.}$	< 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}	$\rho^0 K^+K^-$	< 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}	$K_S^0 K^-\pi^+$	< 3.2	$\times 10^{-3}$ CL=90%
Γ_{51}	$K_S^0 K^-\pi^+\pi^0$	< 1.33	% CL=90%
Γ_{52}	$K_S^0 K^-2\pi^+\pi^-$	< 8.7	$\times 10^{-3}$ CL=90%
Γ_{53}	$K_S^0 K^-2\pi^+\pi^-\pi^0$	< 4.18	% CL=90%
Γ_{54}	$K_S^0 K^-\pi^+2(\pi^+\pi^-)$	< 1.22	% CL=90%
Γ_{55}	$K_S^0 K^-\pi^+2\pi^0$	< 2.65	% CL=90%
Γ_{56}	$K^{*0}K^-\pi^+ + \text{c.c.}$	< 9.7	$\times 10^{-3}$ CL=90%
Γ_{57}	$\rho\bar{p}\pi^0$	< 1.2	$\times 10^{-3}$
Γ_{58}	$\rho\bar{p}\pi^+\pi^-$	< 5.8	$\times 10^{-4}$ CL=90%
Γ_{59}	$\Lambda\bar{\Lambda}$	< 1.2	$\times 10^{-4}$ CL=90%
Γ_{60}	$\rho\bar{p}\pi^+\pi^-\pi^0$	< 1.85	$\times 10^{-3}$ CL=90%
Γ_{61}	$\omega\rho\bar{p}$	< 2.9	$\times 10^{-4}$ CL=90%
Γ_{62}	$\Lambda\bar{\Lambda}\pi^0$	< 1.2	$\times 10^{-3}$ CL=90%
Γ_{63}	$\rho\bar{p}2(\pi^+\pi^-)$	< 2.6	$\times 10^{-3}$ CL=90%
Γ_{64}	$\eta\rho\bar{p}$	< 5.4	$\times 10^{-4}$ CL=90%
Γ_{65}	$\rho^0\rho\bar{p}$	< 1.7	$\times 10^{-3}$ CL=90%
Γ_{66}	$\rho\bar{p}K^+K^-$	< 3.2	$\times 10^{-4}$ CL=90%
Γ_{67}	$\phi\rho\bar{p}$	< 1.3	$\times 10^{-4}$ CL=90%
Γ_{68}	$\Lambda\bar{\Lambda}\pi^+\pi^-$	< 2.5	$\times 10^{-4}$ CL=90%
Γ_{69}	$\Lambda\bar{p}K^+$	< 2.8	$\times 10^{-4}$ CL=90%
Γ_{70}	$\Lambda\bar{p}K^+\pi^+\pi^-$	< 6.3	$\times 10^{-4}$ CL=90%
Γ_{71}	$\pi^+\pi^-\pi^0$	not seen	
Γ_{72}	$\rho\pi$	not seen	
Γ_{73}	$\omega\pi^0$	not seen	

Γ_{74}	$\rho\eta$	not seen
Γ_{75}	$\omega\eta$	not seen
Γ_{76}	$\rho\eta'$	not seen
Γ_{77}	$\omega\eta'$	not seen
Γ_{78}	$\phi\eta'$	not seen
Γ_{79}	$K^{*0}\bar{K}^0$	not seen
Γ_{80}	$K^{*+}K^-$	not seen
Γ_{81}	$b_1\pi$	not seen

$\psi(3770)$ PARTIAL WIDTHS

$\Gamma(e^+e^-)$ Γ_{11}

<u>VALUE (keV)</u>	<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 ± 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 ± 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 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

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

<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±0.037±0.028	ABLIKIM	06L BES2	$e^+ e^- \rightarrow D^+ D^-$
0.357±0.011±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 ±0.31 ±0.12		PAKHLOVA	08 BELL	10.6 $e^+ e^- \rightarrow D \bar{D} \gamma$
1.78 ±0.33 ±0.24		AUBERT	07BE BABR	$e^+ e^- \rightarrow D \bar{D} \gamma$
1.258±0.016±0.014		DOBBS	07 CLEO	$e^+ e^- \rightarrow D \bar{D}$
1.27 ±0.12 ±0.08		ABLIKIM	06L BES2	$e^+ e^- \rightarrow D \bar{D}$
2.43 ±1.50 ±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±0.20±0.20	231 ± 33	ADAM	06 CLEO	$e^+ e^- \rightarrow \psi(3770)$
3.4 ±1.4 ±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±0.025±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±33±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±0.7±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	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma \gamma J/\psi$

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

<u>VALUE (units 10⁻³)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2.9±0.5±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±1.4±0.6	54 ± 17	¹⁵ BRIERE	06 CLEO	$e^+ e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$
2.8±0.5±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±0.31±0.26	53 ± 10	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	$e^+e^- \rightarrow \psi(3770)$

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

<u>VALUE (units 10⁻³)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<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	$e^+e^- \rightarrow \psi(3770) \rightarrow \gamma + \text{hadrons}$

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

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
>8	90	17 BRIERE	06 CLEO	$e^+e^- \rightarrow \psi(3770)$

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

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

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

<u>VALUE (units 10⁻⁵)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 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	$e^+e^- \rightarrow \psi(3770)$

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

<u>VALUE (units 10⁻⁴)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<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	$e^+e^- \rightarrow \psi(3770)$

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

<u>VALUE (units 10⁻⁴)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<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	$e^+e^- \rightarrow \psi(3770)$

$\Gamma(2(\pi^+\pi^-\pi^0))/\Gamma_{\text{total}}$			Γ_{15}/Γ		
VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<58.5	90	305	ABLIKIM	08N	BES2 $e^+e^- \rightarrow \psi(3770)$

$\Gamma(\omega\pi^+\pi^-)/\Gamma_{\text{total}}$			Γ_{16}/Γ		
VALUE (units 10^{-4})	CL%		DOCUMENT ID	TECN	COMMENT
< 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 $3.77 e^+e^-$

$\Gamma(3(\pi^+\pi^-))/\Gamma_{\text{total}}$			Γ_{17}/Γ		
VALUE (units 10^{-4})			DOCUMENT ID	TECN	COMMENT
<91		22,23	ABLIKIM	07B	BES2 $e^+e^- \rightarrow \psi(3770)$

$\Gamma(3(\pi^+\pi^-\pi^0))/\Gamma_{\text{total}}$			Γ_{18}/Γ		
VALUE (units 10^{-4})			DOCUMENT ID	TECN	COMMENT
<137		22,23	ABLIKIM	07B	BES2 $e^+e^- \rightarrow \psi(3770)$

$\Gamma(3(\pi^+\pi^-)2\pi^0)/\Gamma_{\text{total}}$			Γ_{19}/Γ		
VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<117.4	90	59	ABLIKIM	08N	BES2 $e^+e^- \rightarrow \psi(3770)$

$\Gamma(\eta\pi^+\pi^-)/\Gamma_{\text{total}}$			Γ_{20}/Γ		
VALUE (units 10^{-4})	CL%		DOCUMENT ID	TECN	COMMENT
<12.4	90	21	HUANG	06A	CLEO $e^+e^- \rightarrow \psi(3770)$

$\Gamma(\pi^+\pi^-2\pi^0)/\Gamma_{\text{total}}$			Γ_{21}/Γ		
VALUE (units 10^{-3})	CL%	EVTS	DOCUMENT ID	TECN	COMMENT
<8.9	90	218	ABLIKIM	08N	BES2 $e^+e^- \rightarrow \psi(3770)$

$\Gamma(\rho^0\pi^+\pi^-)/\Gamma_{\text{total}}$			Γ_{22}/Γ		
VALUE (units 10^{-3})	CL%		DOCUMENT ID	TECN	COMMENT
<6.9	90	22,23	ABLIKIM	07F	BES2 $e^+e^- \rightarrow \psi(3770)$

$\Gamma(\eta3\pi)/\Gamma_{\text{total}}$			Γ_{23}/Γ		
VALUE (units 10^{-4})	CL%		DOCUMENT ID	TECN	COMMENT
<13.4	90	21	HUANG	06A	CLEO $e^+e^- \rightarrow \psi(3770)$

$\Gamma(\eta2(\pi^+\pi^-))/\Gamma_{\text{total}}$			Γ_{24}/Γ		
VALUE (units 10^{-4})			DOCUMENT ID	TECN	COMMENT
<243		22,23	ABLIKIM	07B	BES2 $e^+e^- \rightarrow \psi(3770)$

$\Gamma(\eta'3\pi)/\Gamma_{\text{total}}$			Γ_{25}/Γ		
VALUE (units 10^{-4})	CL%		DOCUMENT ID	TECN	COMMENT
<24.4	90	21	HUANG	06A	CLEO $e^+e^- \rightarrow \psi(3770)$

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

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 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 $e^+ e^- \rightarrow \psi(3770)$

$\Gamma(\phi \pi^+ \pi^-) / \Gamma_{\text{total}}$ Γ_{27} / 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 $e^+ e^- \rightarrow \psi(3770)$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
<16		22,23	ABLIKIM	07B	BES2 $e^+ e^- \rightarrow \psi(3770)$

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

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

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

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

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

<u>VALUE (units 10^{-4})</u>			<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$3.1 \pm 0.6 \pm 0.3$		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 $e^+ e^- \rightarrow \psi(3770)$

$\Gamma(4(\pi^+ \pi^-)) / \Gamma_{\text{total}}$ Γ_{31} / 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_{32} / 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_{33} / 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_{34} / 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 $e^+ e^- \rightarrow \psi(3770)$

$\Gamma(K^+ K^- \rho^0 \pi^0)/\Gamma_{\text{total}}$						Γ_{35}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
<8	90	24	ABLIKIM	07I	BES2	$3.77 e^+ e^-$
$\Gamma(K^+ K^- \rho^+ \pi^-)/\Gamma_{\text{total}}$						Γ_{36}/Γ
<u>VALUE (units 10^{-4})</u>	<u>CL%</u>		<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
<146	90	24	ABLIKIM	07I	BES2	$3.77 e^+ e^-$
$\Gamma(\omega K^+ K^-)/\Gamma_{\text{total}}$						Γ_{37}/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	$3.77 e^+ e^-$
$\Gamma(\phi \pi^+ \pi^- \pi^0)/\Gamma_{\text{total}}$						Γ_{38}/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_{39}/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_{40}/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	$3.77 e^+ e^-$
$\Gamma(K^+ K^- \pi^+ \pi^- 2\pi^0)/\Gamma_{\text{total}}$						Γ_{41}/Γ
<u>VALUE (units 10^{-3})</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	
<26.7	90	24	ABLIKIM	08N	BES2	$e^+ e^- \rightarrow \psi(3770)$
$\Gamma(K^+ K^- 2(\pi^+ \pi^-))/\Gamma_{\text{total}}$						Γ_{42}/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_{43}/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_{44}/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_{45}/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_{46}/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	$e^+ e^- \rightarrow \psi(3770)$

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

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 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	$e^+ e^- \rightarrow \psi(3770)$

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

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 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	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(2(K^+ K^-)\pi^+ \pi^-)/\Gamma_{\text{total}}$ Γ_{49}/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	$e^+ e^- \rightarrow \psi(3770)$

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

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

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

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

$\Gamma(K_S^0 K^- 2\pi^+ \pi^-)/\Gamma_{\text{total}}$ Γ_{52}/Γ

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

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

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

$\Gamma(K_S^0 K^- \pi^+ 2(\pi^+ \pi^-))/\Gamma_{\text{total}}$ Γ_{54}/Γ

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

$\Gamma(K_S^0 K^- \pi^+ 2\pi^0)/\Gamma_{\text{total}}$ Γ_{55}/Γ

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

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

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

$\Gamma(\rho\bar{\rho}\pi^0)/\Gamma_{\text{total}}$ Γ_{57}/Γ

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

$\Gamma(\rho\bar{\rho}\pi^+ \pi^-)/\Gamma_{\text{total}}$ Γ_{58}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
< 5.8	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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$\Gamma(\Lambda\bar{\Lambda})/\Gamma_{\text{total}}$ Γ_{59}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
<1.2	90	21 HUANG	06A	CLEO $e^+ e^- \rightarrow \psi(3770)$

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

<4	90	22,23	ABLIKIM	07F	BES2 $e^+ e^- \rightarrow \psi(3770)$
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$\Gamma(\rho\bar{\rho}\pi^+ \pi^- \pi^0)/\Gamma_{\text{total}}$ Γ_{60}/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
<18.5	90	21 HUANG	06A	CLEO $e^+ e^- \rightarrow \psi(3770)$

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

<73	22,23	ABLIKIM	07B	BES2 $e^+ e^- \rightarrow \psi(3770)$
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$\Gamma(\omega\rho\bar{\rho})/\Gamma_{\text{total}}$ Γ_{61}/Γ

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

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

<30	90	24	ABLIKIM	07I	BES2 $3.77 e^+ e^-$
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$\Gamma(\Lambda\bar{\Lambda}\pi^0)/\Gamma_{\text{total}}$ Γ_{62}/Γ

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

$\Gamma(\rho\bar{\rho}2(\pi^+ \pi^-))/\Gamma_{\text{total}}$ Γ_{63}/Γ

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

$\Gamma(\eta\rho\bar{\rho})/\Gamma_{\text{total}}$ Γ_{64}/Γ

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

$\Gamma(\rho^0 \rho \bar{\rho})/\Gamma_{\text{total}}$ **Γ_{65}/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	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(\rho \bar{\rho} K^+ K^-)/\Gamma_{\text{total}}$ **Γ_{66}/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	$e^+ e^- \rightarrow \psi(3770)$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<11		22,23 ABLIKIM	07B BES2	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(\phi \rho \bar{\rho})/\Gamma_{\text{total}}$ **Γ_{67}/Γ**

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<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	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(\Lambda \bar{\Lambda} \pi^+ \pi^-)/\Gamma_{\text{total}}$ **Γ_{68}/Γ**

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
< 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	$e^+ e^- \rightarrow \psi(3770)$

$\Gamma(\Lambda \bar{\rho} K^+)/\Gamma_{\text{total}}$ **Γ_{69}/Γ**

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

$\Gamma(\Lambda \bar{\rho} K^+ \pi^+ \pi^-)/\Gamma_{\text{total}}$ **Γ_{70}/Γ**

<u>VALUE (units 10^{-4})</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<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.

$\psi(3770)$ REFERENCES

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ABLIKIM	08D	PL B660 315	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	08M	PL B670 179	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	08N	PL B670 184	M. Ablikim <i>et al.</i>	(BES Collab.)
AUBERT	08B	PR D77 011102R	B. Aubert <i>et al.</i>	(BABAR Collab.)
BRODZICKA	08	PRL 100 092001	J. Brodzicka <i>et al.</i>	(BELLE Collab.)
PAKHLOVA	08	PR D77 011103R	G. Pakhlova <i>et al.</i>	(BELLE Collab.)
ABLIKIM	07B	PL B650 111	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07E	PL B652 238	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07F	PL B656 30	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07I	EPJ C52 805	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	07K	PR D76 122002	M. Ablikim <i>et al.</i>	(BES Collab.)
AUBERT	07BE	PR D76 111105R	B. Aubert <i>et al.</i>	(BABAR Collab.)
DOBBS	07	PR D76 112001	S. Dobbs <i>et al.</i>	(CLEO Collab.)
ABLIKIM	06L	PRL 97 121801	M. Ablikim <i>et al.</i>	(BES Collab.)
ABLIKIM	06N	PL B641 145	M. Ablikim <i>et al.</i>	(BES Collab.)
ADAM	06	PRL 96 082004	N.E. Adam <i>et al.</i>	(CLEO Collab.)
ADAMS	06	PR D73 012002	G.S. Adams <i>et al.</i>	(CLEO Collab.)
BESSON	06	PRL 96 092002	D. Besson <i>et al.</i>	(CLEO Collab.)
BRIERE	06	PR D74 031106R	R.A. Briere <i>et al.</i>	(CLEO Collab.)
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