

$\psi(3770)$ WIDTH

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
23.6 ± 2.7 OUR FIT	Error includes scale factor of 1.1.		
25.3 ± 2.9 OUR AVERAGE			
24 ± 5	SCHINDLER	80 MRK2	$e^+ e^-$
24 ± 5	BACINO	78 DLCO	$e^+ e^-$
28 ± 5	RAPIDIS	77 MRK1	$e^+ e^-$

$\psi(3770)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)	Scale factor/ Confidence level
Γ_1 $D\bar{D}$	dominant	
Γ_2 $D^0\bar{D}^0$	seen	
Γ_3 D^+D^-	seen	
Γ_4 e^+e^-	$(1.12 \pm 0.17) \times 10^{-5}$	S=1.2
Γ_5 $K_S^0 K_L^0$	$< 2.1 \times 10^{-4}$	CL=90%
Γ_6 $J/\psi \pi^+ \pi^-$	$(3.4 \pm 1.7) \times 10^{-3}$	

$\psi(3770)$ PARTIAL WIDTHS

Γ_4

<u>VALUE (keV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
0.26 ± 0.04 OUR FIT	Error includes scale factor of 1.2.		
0.24 ± 0.05 OUR AVERAGE	Error includes scale factor of 1.2.		
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	³ RAPIDIS	77 MRK1	$e^+ e^-$
³ See also $\Gamma(e^+ e^-)/\Gamma_{\text{total}}$ below.			

$\psi(3770)$ BRANCHING RATIOS

Γ_1/Γ

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
dominant	PERUZZI	77 MRK1	$e^+ e^- \rightarrow D\bar{D}$

Γ_2/Γ_3

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
2.43 ± 1.50 ± 0.43	34	⁴ CHISTOV	04 BELL	$B^+ \rightarrow \psi(3770) K^+$
⁴ See ADLER 88C for older measurements of this quantity.				

Γ_4/Γ

<u>VALUE (units 10^{-5})</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1.12 ± 0.17 OUR FIT	Error includes scale factor of 1.2.		
1.3 ± 0.2	RAPIDIS	77 MRK1	$e^+ e^-$

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

Γ_5/Γ

VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT
<2.1	90	⁵ ABLIKIM	04F BES	$e^+ e^-$

⁵ Using $B(K_S^0 \rightarrow \pi^+ \pi^-) = 0.6860 \pm 0.0027$.

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

Γ_6/Γ

VALUE (units 10^{-2})	EVTS	DOCUMENT ID	TECN	COMMENT
0.34 ± 0.14 ± 0.09	17.8 ± 4.8	BAI	05 BES2	$e^+ e^- \rightarrow J/\psi \pi^+ \pi^-$

$\psi(3770)$ REFERENCES

BAI	05	PL B605 63	J.Z. Bai <i>et al.</i>	(BES Collab.)
ABLIKIM	04F	PR D70 077101	M. Ablikim <i>et al.</i>	(BES Collab.)
CHISTOV	04	PRL 93 051803	R. Chistov <i>et al.</i>	(BELLE Collab.)
ADLER	88C	PRL 60 89	J. Adler <i>et al.</i>	(Mark III Collab.)
SCHINDLER	80	PR D21 2716	R.H. Schindler <i>et al.</i>	(Mark II Collab.)
BACINO	78	PRL 40 671	W.J. Bacino <i>et al.</i>	(SLAC, UCLA, UCI)
PERUZZI	77	PRL 39 1301	I. Peruzzi <i>et al.</i>	(Mark I Collab.)
RAPIDIS	77	PRL 39 526	P.A. Rapidis <i>et al.</i>	(Mark I Collab.)

OTHER RELATED PAPERS

ABLIKIM	04D	PL B603 130	M. Ablikim <i>et al.</i>	(BES Collab.)
LIU	04B	PR D70 094001	K.-Y. Liu, K.-T. Chao	
WANG	04C	PR D70 077505	P. Wang, X.H. Ho, C.Z. Yuan	
WANG	04D	PR D70 114014	P. Wang, C.Z. Yuan, X.H. Mo	