

# X(4260)

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

Seen in radiative return from  $e^+e^-$  collisions at  $\sqrt{s} = 9.54\text{--}10.58$  GeV by AUBERT,B 05I, HE 06B, and YUAN 07, and in  $e^+e^-$  collisions at  $\sqrt{s} \approx 4.26$  GeV by COAN 06. Possibly seen by AUBERT 06 in  $B^- \rightarrow K^- \pi^+ \pi^- J/\psi$ . See also the mini-review under the X(3872). (See the index for the page number.)

## X(4260) MASS

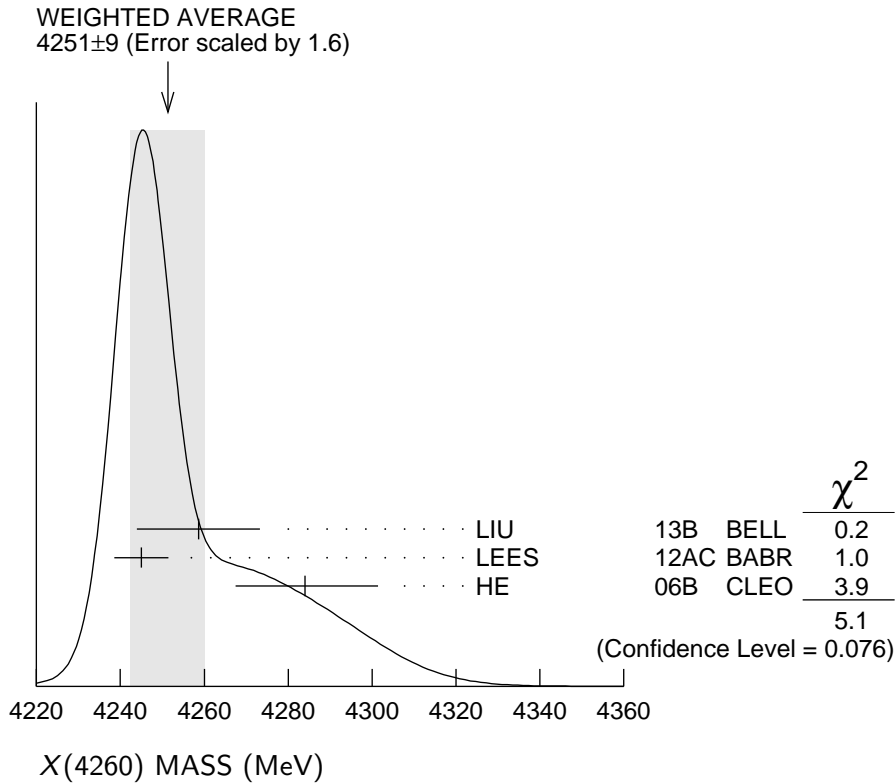
VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>4251 ± 9</b>	<b>OUR AVERAGE</b>	Error includes scale factor of 1.6. See the ideogram below.		
4258.6 ± 8.3 ± 12.1		<sup>1</sup> LIU	13B BELL	$e^+e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$
4245 ± 5 ± 4		<sup>2</sup> LEES	12AC BABR	10.58 $e^+e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$
4284 $\begin{smallmatrix} +17 \\ -16 \end{smallmatrix}$ ± 413.6		HE	06B CLEO	9.4–10.6 $e^+e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
4247 ± 12 $\begin{smallmatrix} +17 \\ -32 \end{smallmatrix}$		<sup>1,3</sup> YUAN	07 BELL	10.58 $e^+e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$
4259 ± 8 $\begin{smallmatrix} +2 \\ -6 \end{smallmatrix}$ 125		<sup>4</sup> AUBERT,B	05I BABR	10.58 $e^+e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$

<sup>1</sup> From a two-resonance fit.

<sup>2</sup> From a single-resonance fit. Supersedes AUBERT,B 05I.

<sup>3</sup> Superseded by LIU 13B.

<sup>4</sup> From a single-resonance fit. Two interfering resonances are not excluded. Superseded by LEES 12AC.



**X(4260) WIDTH**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>120 ±12</b>	<b>OUR AVERAGE</b>	Error includes scale factor of 1.1.		
134.1±16.4± 5.5		<sup>1</sup> LIU	13B BELL	$e^+e^- \rightarrow \gamma\pi^+\pi^- J/\psi$
114 $\begin{smallmatrix} +16 \\ -15 \end{smallmatrix} \pm 7$		<sup>2</sup> LEES	12AC BABR	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^- J/\psi$
73 $\begin{smallmatrix} +39 \\ -25 \end{smallmatrix} \pm 5$	13.6	HE	06B CLEO	9.4–10.6 $e^+e^- \rightarrow \gamma\pi^+\pi^- J/\psi$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
108 ±19 ±10		<sup>1,3</sup> YUAN	07 BELL	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^- J/\psi$
88 ±23 $\begin{smallmatrix} +6 \\ -4 \end{smallmatrix}$	125	<sup>4</sup> AUBERT,B	05I BABR	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^- J/\psi$
<sup>1</sup> From a two-resonance fit.				
<sup>2</sup> From a single-resonance fit. Supersedes AUBERT,B 05I.				
<sup>3</sup> Superseded by LIU 13B.				
<sup>4</sup> From a single-resonance fit. Two interfering resonances are not excluded. Superseded by LEES 12AC.				

**X(4260) DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $e^+e^-$	
$\Gamma_2$ $J/\psi\pi^+\pi^-$	seen
$\Gamma_3$ $J/\psi f_0(980), f_0(980) \rightarrow \pi^+\pi^-$	seen
$\Gamma_4$ $X(3900)^\pm\pi^\mp, X^\pm \rightarrow J/\psi\pi^\pm$	seen
$\Gamma_5$ $J/\psi\pi^0\pi^0$	seen
$\Gamma_6$ $J/\psi K^+K^-$	seen
$\Gamma_7$ $J/\psi K_S^0 K_S^0$	not seen
$\Gamma_8$ $X(3872)\gamma$	seen
$\Gamma_9$ $J/\psi\eta$	not seen
$\Gamma_{10}$ $J/\psi\pi^0$	not seen
$\Gamma_{11}$ $J/\psi\eta'$	not seen
$\Gamma_{12}$ $J/\psi\pi^+\pi^-\pi^0$	not seen
$\Gamma_{13}$ $J/\psi\eta\eta$	not seen
$\Gamma_{14}$ $\psi(2S)\pi^+\pi^-$	not seen
$\Gamma_{15}$ $\psi(2S)\eta$	not seen
$\Gamma_{16}$ $\chi_{c0}\omega$	not seen
$\Gamma_{17}$ $\chi_{c1}\gamma$	not seen
$\Gamma_{18}$ $\chi_{c2}\gamma$	not seen
$\Gamma_{19}$ $\chi_{c1}\pi^+\pi^-\pi^0$	not seen
$\Gamma_{20}$ $\chi_{c2}\pi^+\pi^-\pi^0$	not seen
$\Gamma_{21}$ $h_c(1P)\pi^+\pi^-$	not seen
$\Gamma_{22}$ $\phi\pi^+\pi^-$	not seen
$\Gamma_{23}$ $\phi f_0(980) \rightarrow \phi\pi^+\pi^-$	not seen
$\Gamma_{24}$ $D\bar{D}$	not seen

$\Gamma_{25}$	$D^0 \bar{D}^0$	not seen
$\Gamma_{26}$	$D^+ D^-$	not seen
$\Gamma_{27}$	$D^* \bar{D} + c.c.$	not seen
$\Gamma_{28}$	$D^*(2007)^0 \bar{D}^0 + c.c.$	not seen
$\Gamma_{29}$	$D^*(2010)^+ D^- + c.c.$	not seen
$\Gamma_{30}$	$D^* \bar{D}^*$	not seen
$\Gamma_{31}$	$D^*(2007)^0 \bar{D}^*(2007)^0$	not seen
$\Gamma_{32}$	$D^*(2010)^+ D^*(2010)^-$	not seen
$\Gamma_{33}$	$D \bar{D} \pi + c.c.$	
$\Gamma_{34}$	$D^0 D^- \pi^+ + c.c. \text{ (excl. } D^*(2007)^0 \bar{D}^{*0} + c.c., D^*(2010)^+ D^- + c.c.)$	not seen
$\Gamma_{35}$	$D \bar{D}^* \pi + c.c. \text{ (excl. } D^* \bar{D}^*)$	not seen
$\Gamma_{36}$	$D^0 D^{*-} \pi^+ + c.c. \text{ (excl. } D^*(2010)^+ D^*(2010)^-)$	not seen
$\Gamma_{37}$	$D^0 D^*(2010)^- \pi^+ + c.c.$	not seen
$\Gamma_{38}$	$D^* \bar{D}^* \pi$	not seen
$\Gamma_{39}$	$D_s^+ D_s^-$	not seen
$\Gamma_{40}$	$D_s^{*+} D_s^- + c.c.$	not seen
$\Gamma_{41}$	$D_s^{*+} D_s^{*-}$	not seen
$\Gamma_{42}$	$\rho \bar{\rho}$	not seen
$\Gamma_{43}$	$K_S^0 K^\pm \pi^\mp$	not seen
$\Gamma_{44}$	$K^+ K^- \pi^0$	not seen

**$X(4260) \Gamma(i) \Gamma(e^+ e^-) / \Gamma(\text{total})$**

$\Gamma(J/\psi \pi^+ \pi^-) \times \Gamma(e^+ e^-) / \Gamma_{\text{total}}$					$\Gamma_2 \Gamma_1 / \Gamma$
VALUE (eV)	EVTS	DOCUMENT ID	TECN	COMMENT	
<b>9.2 ± 1.0 OUR AVERAGE</b>					
9.2 ± 0.8 ± 0.7		<sup>1</sup> LEES	12AC BABR	10.58 $e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$	
8.9 <sup>+3.9</sup> <sub>-3.1</sub> ± 1.8	8.1	HE	06B CLEO	9.4–10.6 $e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$	
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●					
6.4 ± 0.8 ± 0.6		<sup>2</sup> LIU	13B BELL	$e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$	
20.5 ± 1.4 ± 2.0		<sup>3</sup> LIU	13B BELL	$e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$	
6.0 ± 1.2 <sup>+4.7</sup> <sub>-0.5</sub>		<sup>2,4</sup> YUAN	07 BELL	10.58 $e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$	
20.6 ± 2.3 <sup>+9.1</sup> <sub>-1.7</sub>		<sup>3,4</sup> YUAN	07 BELL	10.58 $e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$	
5.5 ± 1.0 <sup>+0.8</sup> <sub>-0.7</sub>	125	<sup>5</sup> AUBERT,B	05I BABR	10.58 $e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$	

<sup>1</sup> From a single-resonance fit. Supersedes AUBERT,B 05I.

<sup>2</sup> Solution I of two equivalent solutions in a fit using two interfering resonances.

<sup>3</sup> Solution II of two equivalent solutions in a fit using two interfering resonances.

<sup>4</sup> Superseded by LIU 13B.

<sup>5</sup> From a single-resonance fit. Two interfering resonances are not excluded. Superseded by LEES 12AC.

$\Gamma(J/\psi K^+ K^-) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_6 \Gamma_1/\Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
<1.7	90	<sup>1</sup> SHEN	14	BELL 9.4–10.9 $e^+ e^- \rightarrow \gamma K^+ K^- J/\psi$

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

<1.2	90	<sup>2</sup> YUAN	08	BELL $e^+ e^- \rightarrow \gamma K^+ K^- J/\psi$
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<sup>1</sup> From a fit of the broad  $K^+ K^- J/\psi$  enhancement including a coherent  $X(4260)$  amplitude with mass and width from LIU 13B. Supersedes YUAN 08.

<sup>2</sup> From a fit of the broad  $K^+ K^- J/\psi$  enhancement including a coherent  $X(4260)$  amplitude with mass and width from YUAN 07.

$\Gamma(J/\psi K_S^0 K_S^0) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_7 \Gamma_1/\Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
<0.85	90	<sup>1</sup> SHEN	14	BELL 9.4–10.9 $e^+ e^- \rightarrow \gamma K_S^0 K_S^0 J/\psi$

<sup>1</sup> From a fit of the  $K_S^0 K_S^0 J/\psi$  mass range from 4.4 to 5.5 GeV including a coherent  $X(4260)$  amplitude with mass and width from LIU 13B.

$\Gamma(J/\psi \eta) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_9 \Gamma_1/\Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
<14.2	90	WANG	13B	BELL $e^+ e^- \rightarrow J/\psi \eta \gamma$

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

$\Gamma(\psi(2S) \pi^+ \pi^-) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_{14} \Gamma_1/\Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
<4.3	90	<sup>1</sup> LIU	08H	RVUE 10.58 $e^+ e^- \rightarrow \psi(2S) \pi^+ \pi^- \gamma$
$7.4^{+2.1}_{-1.7}$		<sup>2</sup> LIU	08H	RVUE 10.58 $e^+ e^- \rightarrow \psi(2S) \pi^+ \pi^- \gamma$

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

<sup>1</sup> For constructive interference with the  $X(4360)$  in a combined fit of AUBERT 07S and WANG 07D data with three resonances.

<sup>2</sup> For destructive interference with the  $X(4360)$  in a combined fit of AUBERT 07S and WANG 07D data with three resonances.

$\Gamma(\phi \pi^+ \pi^-) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_{22} \Gamma_1/\Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
<0.4	90	AUBERT, BE	06D	BABR 10.6 $e^+ e^- \rightarrow K^+ K^- \pi^+ \pi^- \gamma$

$\Gamma(\phi f_0(980) \rightarrow \phi \pi^+ \pi^-) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_{23} \Gamma_1/\Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
<0.29	90	<sup>1</sup> AUBERT	07AK	BABR 10.6 $e^+ e^- \rightarrow \pi^+ \pi^- K^+ K^- \gamma$

<sup>1</sup> AUBERT 07AK reports  $[\Gamma(X(4260) \rightarrow \phi f_0(980) \rightarrow \phi \pi^+ \pi^-) \times \Gamma(X(4260) \rightarrow e^+ e^-)/\Gamma_{\text{total}}] \times [B(\phi(1020) \rightarrow K^+ K^-)] < 0.14$  eV which we divide by our best value  $B(\phi(1020) \rightarrow K^+ K^-) = 48.9 \times 10^{-2}$ .

$\Gamma(K_S^0 K^\pm \pi^\mp) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_{43} \Gamma_1/\Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
<0.5	90	AUBERT	08S	BABR 10.6 $e^+ e^- \rightarrow K_S^0 K^\pm \pi^\mp \gamma$

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

$\Gamma(K^+ K^- \pi^0) \times \Gamma(e^+ e^-) / \Gamma_{\text{total}}$   $\Gamma_{44} \Gamma_1 / \Gamma$

VALUE (eV)	CL%	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

<0.6	90	AUBERT	08S BABR	10.6 $e^+ e^- \rightarrow K^+ K^- \pi^0 \gamma$
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**X(4260) BRANCHING RATIOS**

$\Gamma(J/\psi f_0(980), f_0(980) \rightarrow \pi^+ \pi^-) / \Gamma(J/\psi \pi^+ \pi^-)$   $\Gamma_3 / \Gamma_2$

VALUE	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.17 ± 0.13	<sup>1</sup> LEES	12AC BABR	10.58 $e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$
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<sup>1</sup> Systematic uncertainties not estimated.

$\Gamma(X(3900)^\pm \pi^\mp, X^\pm \rightarrow J/\psi \pi^\pm) / \Gamma(J/\psi \pi^+ \pi^-)$   $\Gamma_4 / \Gamma_2$

VALUE	DOCUMENT ID	TECN	COMMENT
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<b>0.215 ± 0.033 ± 0.075</b>	<sup>1</sup> ABLIKIM	13T BES3	$e^+ e^- \rightarrow \pi^+ \pi^- J/\psi$
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• • • We do not use the following data for averages, fits, limits, etc. • • •

0.29 ± 0.08	<sup>2</sup> LIU	13B BELL	$e^+ e^- \rightarrow \gamma \pi^+ \pi^- J/\psi$
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<sup>1</sup> Assuming that the cross section of  $e^+ e^- \rightarrow \pi^+ \pi^- J/\psi$  is fully due to the X(4260).

<sup>2</sup> Systematic error not evaluated.

$\Gamma(J/\psi K_S^0 K_S^0) / \Gamma_{\text{total}}$   $\Gamma_7 / \Gamma$

VALUE	DOCUMENT ID	TECN	COMMENT
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<b>not seen</b>	SHEN	14 BELL	9.4–10.9 $e^+ e^- \rightarrow \gamma K_S^0 K_S^0 J/\psi$
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$\Gamma(X(3872)\gamma) / \Gamma_{\text{total}}$   $\Gamma_8 / \Gamma$

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
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<b>seen</b>	20 ± 5	ABLIKIM	14 BES3	$e^+ e^- \rightarrow J/\psi \pi^+ \pi^- \gamma$
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$\Gamma(h_c(1P)\pi^+ \pi^-) / \Gamma(J/\psi \pi^+ \pi^-)$   $\Gamma_{21} / \Gamma_2$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
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<1.0	90	<sup>1</sup> PEDLAR	11 CLEO	$e^+ e^- \rightarrow h_c(1P)\pi^+ \pi^-$
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<sup>1</sup> At  $\sqrt{s} = 4260$  MeV, PEDLAR 11 measures  $\sigma(e^+ e^- \rightarrow h_c(1P)\pi^+ \pi^-) = 32 \pm 17 \pm 6 \pm 6$  pb, where the errors are statistical, systematic, and due to uncertainty in  $B(\psi(2S) \rightarrow \pi^0 h_c(1P))$ , respectively.

$\Gamma(D\bar{D}) / \Gamma(J/\psi \pi^+ \pi^-)$   $\Gamma_{24} / \Gamma_2$

VALUE	CL%	DOCUMENT ID	TECN	COMMENT
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<1.0	90	<sup>1</sup> AUBERT	07BE BABR	$e^+ e^- \rightarrow D\bar{D}\gamma$
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• • • We do not use the following data for averages, fits, limits, etc. • • •

<4.0	90	CRONIN-HEN..09	CLEO	$e^+ e^-$
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<sup>1</sup> Using  $4259 \pm 10$  MeV for the mass and  $88 \pm 24$  MeV for the width of X(4260).

$\Gamma(D^0\bar{D}^0)/\Gamma_{\text{total}}$   $\Gamma_{25}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+e^- \rightarrow D^0\bar{D}^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	AUBERT	09M BABR	$e^+e^- \rightarrow D^0\bar{D}^0\gamma$
not seen	PAKHLOVA	08 BELL	$e^+e^- \rightarrow D^0\bar{D}^0\gamma$

$\Gamma(D^+D^-)/\Gamma_{\text{total}}$   $\Gamma_{26}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+e^- \rightarrow D^+D^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	AUBERT	09M BABR	$e^+e^- \rightarrow D^+D^-\gamma$
not seen	PAKHLOVA	08 BELL	$e^+e^- \rightarrow D^+D^-\gamma$

$\Gamma(D^*\bar{D}^0+c.c.)/\Gamma(J/\psi\pi^+\pi^-)$   $\Gamma_{27}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>&lt;34</b>	90	AUBERT	09M BABR	$e^+e^- \rightarrow \gamma D^*\bar{D}^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<45	90	CRONIN-HEN..09	CLEO	$e^+e^-$

$\Gamma(D^*(2007)^0\bar{D}^0+c.c.)/\Gamma_{\text{total}}$   $\Gamma_{28}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+e^- \rightarrow D^{*0}\bar{D}^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	AUBERT	09M BABR	$e^+e^- \rightarrow D^{*0}\bar{D}^0\gamma$

$\Gamma(D^*(2010)^+D^-+c.c.)/\Gamma_{\text{total}}$   $\Gamma_{29}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+e^- \rightarrow D^{*+}D^-$
<b>not seen</b>	PAKHLOVA	07 BELL	$e^+e^- \rightarrow D^{*+}D^-\gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	AUBERT	09M BABR	$e^+e^- \rightarrow D^{*+}D^-\gamma$

$\Gamma(D^*\bar{D}^*)/\Gamma(J/\psi\pi^+\pi^-)$   $\Gamma_{30}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>&lt;11</b>	90	CRONIN-HEN..09	CLEO	$e^+e^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<40	90	AUBERT	09M BABR	$e^+e^- \rightarrow \gamma D^*\bar{D}^*$

$\Gamma(D^*(2007)^0\bar{D}^*(2007)^0)/\Gamma_{\text{total}}$   $\Gamma_{31}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+e^- \rightarrow D^{*0}\bar{D}^{*0}$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	AUBERT	09M BABR	$e^+e^- \rightarrow D^{*0}\bar{D}^{*0}\gamma$

$\Gamma(D^*(2010)^+ D^*(2010)^-)/\Gamma_{\text{total}}$   $\Gamma_{32}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D^{*+} D^{*-}$
<b>not seen</b>	PAKHLOVA 07	BELL	$e^+ e^- \rightarrow D^{*+} D^{*-} \gamma$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	AUBERT 09M	BABR	$e^+ e^- \rightarrow D^{*+} D^{*-} \gamma$

$\Gamma(D^0 D^- \pi^+ + \text{c.c. (excl. } D^*(2007)^0 \bar{D}^{*0} + \text{c.c., } D^*(2010)^+ D^- + \text{c.c.))}/\Gamma_{\text{total}}$   $\Gamma_{34}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	PAKHLOVA 08A	BELL	$10.6 e^+ e^- \rightarrow D^0 D^- \pi^+ \gamma$

$\Gamma(D \bar{D}^* \pi + \text{c.c. (excl. } D^* \bar{D}^*))/\Gamma_{\text{total}}$   $\Gamma_{35}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D^* \bar{D} \pi$

$\Gamma(D \bar{D}^* \pi + \text{c.c. (excl. } D^* \bar{D}^*))/\Gamma(J/\psi \pi^+ \pi^-)$   $\Gamma_{35}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<15	90	CRONIN-HEN..09	CLEO	$e^+ e^-$

$\Gamma(D^0 D^{*-} \pi^+ + \text{c.c. (excl. } D^*(2010)^+ D^*(2010)^-))/\Gamma_{\text{total}}$   $\Gamma_{36}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	PAKHLOVA 09	BELL	$e^+ e^- \rightarrow D^0 D^{*-} \pi^+ \gamma$

$\Gamma(D^0 D^*(2010)^- \pi^+ + \text{c.c.})/\Gamma(J/\psi \pi^+ \pi^-)$   $\Gamma_{37}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<9	90	PAKHLOVA 09	BELL	$e^+ e^- \rightarrow D^0 D^{*-} \pi^+$

$\Gamma(D^0 D^*(2010)^- \pi^+ + \text{c.c.})/\Gamma_{\text{total}} \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$   $\Gamma_{37}/\Gamma \times \Gamma_1/\Gamma$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
$<0.42 \times 10^{-6}$	90	<sup>1</sup> PAKHLOVA 09	BELL	$e^+ e^- \rightarrow D^0 D^{*-} \pi^+$
<sup>1</sup> Using $4263^{+8}_{-9}$ MeV for the mass of $X(4260)$ .				

$\Gamma(D^* \bar{D}^* \pi)/\Gamma_{\text{total}}$   $\Gamma_{38}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D^* \bar{D}^* \pi$

$\Gamma(D^* \bar{D}^* \pi)/\Gamma(J/\psi \pi^+ \pi^-)$   $\Gamma_{38}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<8.2	90	CRONIN-HEN..09	CLEO	$e^+ e^-$

$\Gamma(D_s^+ D_s^-)/\Gamma_{\text{total}}$   $\Gamma_{39}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	DEL-AMO-SA..10N	BABR	$e^+ e^- \rightarrow D_s^+ D_s^- \gamma$
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+ e^- \rightarrow D_s^+ D_s^-$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
not seen	PAKHLOVA 11	BELL	$e^+ e^- \rightarrow D_s^+ D_s^- \gamma$

$\Gamma(D_s^+ D_s^-)/\Gamma(J/\psi\pi^+\pi^-)$   $\Gamma_{39}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>&lt;0.7</b>	95	DEL-AMO-SA..10N	BABR	10.6 $e^+e^-$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<1.3	90	CRONIN-HEN..09	CLEO	$e^+e^-$

$\Gamma(D_s^{*+} D_s^- + c.c.)/\Gamma_{total}$   $\Gamma_{40}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	DEL-AMO-SA..10N	BABR	$e^+e^- \rightarrow D_s^{*+} D_s^- \gamma$
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+e^- \rightarrow D_s^{*+} D_s^-$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
not seen	PAKHLOVA 11	BELL	$e^+e^- \rightarrow D_s^{*+} D_s^- \gamma$

$\Gamma(D_s^{*+} D_s^- + c.c.)/\Gamma(J/\psi\pi^+\pi^-)$   $\Gamma_{40}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>&lt; 0.8</b>	90	CRONIN-HEN..09	CLEO	$e^+e^-$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<44	95	DEL-AMO-SA..10N	BABR	10.6 $e^+e^-$

$\Gamma(D_s^{*+} D_s^{*-})/\Gamma_{total}$   $\Gamma_{41}/\Gamma$

<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>not seen</b>	CRONIN-HEN..09	CLEO	$e^+e^- \rightarrow D_s^{*+} D_s^{*-}$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
not seen	PAKHLOVA 11	BELL	$e^+e^- \rightarrow D_s^{*+} D_s^{*-} \gamma$
not seen	DEL-AMO-SA..10N	BABR	$e^+e^- \rightarrow D_s^{*+} D_s^{*-} \gamma$

$\Gamma(D_s^{*+} D_s^{*-})/\Gamma(J/\psi\pi^+\pi^-)$   $\Gamma_{41}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>&lt; 9.5</b>	90	CRONIN-HEN..09	CLEO	$e^+e^-$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
<30	95	DEL-AMO-SA..10N	BABR	10.6 $e^+e^-$

$\Gamma(p\bar{p})/\Gamma(J/\psi\pi^+\pi^-)$   $\Gamma_{42}/\Gamma_2$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>COMMENT</u>
<b>&lt;0.13</b>	90	<sup>1</sup> AUBERT 06B	$e^+e^- \rightarrow p\bar{p}\gamma$

<sup>1</sup> Using  $4259 \pm 10$  MeV for the mass and  $88 \pm 24$  MeV for the width of  $X(4260)$ .



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