

**X(3940)** $I^G(J^{PC}) = ?^?(???)$ 

## OMITTED FROM SUMMARY TABLE

Reported by ABE 07, observed in  $e^+ e^- \rightarrow J/\psi X$ .**X(3940) MASS**

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>3942<math>^{+7}_{-6} \pm 6</math></b>	52	PAKHLOV	08	BELL $e^+ e^- \rightarrow J/\psi X$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>				
3943 $\pm 6 \pm 6$	25	<sup>1</sup> ABE	07	BELL $e^+ e^- \rightarrow J/\psi X$
3936 $\pm 14$	266	<sup>2</sup> ABE	07	BELL $e^+ e^- \rightarrow J/\psi(c\bar{c})$

<sup>1</sup> From a fit to  $D^*+D^-$  and  $D^*0\bar{D}^0$  events.<sup>2</sup> From the inclusive fit. Not independent of the exclusive measurement by ABE 07.**X(3940) WIDTH**

<u>VALUE (MeV)</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>37<math>^{+26}_{-15} \pm 8</math></b>		52	PAKHLOV	08	BELL $e^+ e^- \rightarrow J/\psi X$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>					
<52	90	25	ABE	07	BELL $e^+ e^- \rightarrow J/\psi X$

**X(3940) DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1 D\bar{D}^* + c.c.$	seen
$\Gamma_2 D\bar{D}$	not seen
$\Gamma_3 J/\psi\omega$	not seen

**X(3940) BRANCHING RATIOS**

$$\Gamma(D\bar{D}^* + c.c.)/\Gamma_{\text{total}} \quad \Gamma_1/\Gamma$$

<u>VALUE</u>	<u>CL%</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>					
>0.45	90	25	<sup>1,2</sup> ABE	07	BELL $e^+ e^- \rightarrow J/\psi X$

<sup>1</sup> For  $X(3940)$  decaying to final states with more than two tracks.<sup>2</sup> PAKHLOV 08 finds that the inclusive peak near  $3940 \text{ MeV}/c^2$  may consist of several states.

$$\Gamma(D\bar{D})/\Gamma_{\text{total}} \quad \Gamma_2/\Gamma$$

<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>				
<0.41	90	<sup>1,2</sup> ABE	07	BELL $e^+ e^- \rightarrow J/\psi X$

<sup>1</sup> For  $X(3940)$  decaying to final states with more than two tracks.<sup>2</sup> PAKHLOV 08 finds that the inclusive peak near  $3940 \text{ MeV}/c^2$  may consist of several states.

$\Gamma(J/\psi\omega)/\Gamma_{\text{total}}$	$\Gamma_3/\Gamma$			
<u>VALUE</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<p>• • • We do not use the following data for averages, fits, limits, etc. • • •</p>				
<0.26	90	1, <sup>2</sup> ABE	07	BELL $e^+e^- \rightarrow J/\psi X$
<p><sup>1</sup> For <math>X(3940)</math> decaying to final states with more than two tracks. <sup>2</sup> PAKHLOV 08 finds that the inclusive peak near <math>3940 \text{ MeV}/c^2</math> may consist of several states.</p>				

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## X(3940) REFERENCES

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PAKHLOV ABE	08 07	PRL 100 202001 PRL 98 082001	P. Pakhlov <i>et al.</i> K. Abe <i>et al.</i>	(BELLE Collab.) (BELLE Collab.)
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