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

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
$3942^{+}_{-6}^{7}\pm6$	52	PAKHLOV	80	BELL	$\mathrm{e^+e^-} ightarrow J/\psi X$

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

 $3943 \pm 6 \pm 6$

25 ¹ ABE 266 ² ABE

07 BELL $e^+e^- \rightarrow$

 3936 ± 14 266

07 BELL $e^+e^- \rightarrow J/\psi(c\overline{c})$

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² From the inclusive fit. Not independent of the exclusive measurement by ABE 07.

X(3940) WIDTH

VALUE (MeV)	CL%	EVTS	DOCUMENT ID		TECN	COMMENT	
$37^{+26}_{-15}\pm8$		52	PAKHLOV	08	BELL	$e^+e^- o J/\psi X$	
 • • We do not use the following data for averages, fits, limits, etc. 							
<52	90	25	ABE	07	BELL	$e^+e^- ightarrow J/\psi X$	

X(3940) DECAY MODES

	Mode	Fraction (Γ_i/Γ)
_	$D\overline{D}^*+$ c.c. $D\overline{D}$ $J/\psi\omega$	seen not seen not seen
	7 7	

X(3940) BRANCHING RATIOS

$\Gamma(D\overline{D}^*+c.c)$	c.)/Γ _{total}	l					Γ_1/Γ
<u>VALUE</u>	CL%	EVTS	DOCUMENT ID		TECN	COMMENT	
• • • We do i	not use the	followi	ng data for averages,	fits, I	limits, e	etc. • • •	
>0.45	90	25	3,4 ABE	07	BELL	$e^+e^- \rightarrow$	$J/\psi X$

³ For X(3940) decaying to final states with more than two tracks.

 $^{^4}$ PAKHLOV 08 finds that the inclusive peak near 3940 MeV/c 2 may consist of several states.

$\Gamma(D\overline{D})/\Gamma$	total						Γ_2/Γ	
VALUE		<u>CL%</u>	DOCUMENT	DOCUMENT ID		<u>COMMENT</u>		
• • • We do not use the following data for averages, fits, limits, etc. • •								
< 0.41		90	^{5,6} ABE	07	BELL	$e^+e^- \rightarrow$	$J/\psi X$	
5 For $X(3940)$ decaying to final states with more than two tracks. 6 PAKHLOV 08 finds that the inclusive peak near 3940 MeV/c 2 may consist of several states.								
$\Gamma(J/\psi\omega)$	$\Gamma(J/\psi\omega)/\Gamma_{ m total}$ Γ_3/Γ							
		<u>CL%</u>	DOCUMENT	- ID	TECN	<u>COMMENT</u>		
 ◆ • We do not use the following data for averages, fits, limits, etc. 								
< 0.26		90	^{7,8} ABE	07	BELL	$e^+e^- \rightarrow$	$J/\psi X$	
$^7\rm For~\it X(3940)$ decaying to final states with more than two tracks. $^8\rm PAKHLOV~08$ finds that the inclusive peak near 3940 $\rm MeV/c^2$ may consist of several states.								
X(3940) REFERENCES								
PAKHLOV ABE	08 07	PRL 100 202001 PRL 98 082001	P. Pakhlo K. Abe <i>e</i>				LE Collab.) LE Collab.)	
OTHER RELATED PAPERS								
BUISSERET	07	PR C76 025206	F. Buisse	ret				

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