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

OMITTED FROM SUMMARY TABLE

Reported by ABE 07, observed in $e^+e^- \rightarrow J/\psi X$.

X	(3040)	MASS
Δ	1394U I	IVIAJJ

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT	
3942^{+}_{-} $^{7}_{6}\pm6$	52	PAKHLOV	08	BELL	$e^+e^- o J/\psi X$	
 • • We do not use the following data for averages, fits, limits, etc. 						
3943± 6±6	25	$^{ m 1}$ ABE			$e^+e^- o J/\psi X$	
3936 ± 14	266	² ABE	07	BELL	$e^+e^- o J/\psi(c\overline{c})$	
1- " -*-		.∗0 .= 0				

X(3940) WIDTH

VALUE (MeV)	CL%	<u>EVTS</u>	DOCUMENT ID		TECN	COMMENT
$37^{f +26}_{f -15}\pm 8$		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	$e^+e^- o J/\psi X$

X(3940) DECAY MODES

	Mode	Fraction (Γ_i/Γ)
_	$D\overline{D}^* + c.c.$	seen
Γ_2	DD	not seen
Γ ₃	$J/\psi\omega$	not seen

X(3940) BRANCHING RATIOS

 Γ_1/Γ

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$\Gamma(D\overline{D}^* + \text{c.c.})/\Gamma_{\text{total}}$							
VALUE	CL% EVTS	DOCUMENT ID	TECN	COMMENT			

• • • We do not use the following data for averages, fits, limits, etc. • • • 1,2 ABF 90 07 BELL $e^+e^- \rightarrow J/\psi X$ > 0.45

 $\Gamma(D\overline{D})/\Gamma_{\text{total}}$ Γ_2/Γ

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

 $^{^{1}}_{2}$ From a fit to $D^{*+}D^{-}$ and $D^{*0}\overline{D}{}^{0}$ events. 2 From the inclusive fit. Not independent of the exclusive measurement by ABE 07.

¹ For X(3940) decaying to final states with more than two tracks.

² PAKHLOV 08 finds that the inclusive peak near 3940 MeV/c² may consist of several states.

¹ For X(3940) decaying to final states with more than two tracks.

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 $\Gamma(J/\psi\omega)/\Gamma_{\mathsf{total}}$ Γ_3/Γ

 VALUE
 CL%
 DOCUMENT ID
 TECN
 COMMENT

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

<0.26 90 1,2 ABE 07 BELL $e^+e^- \rightarrow J/\psi X$

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

X(3940) REFERENCES

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

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² PAKHLOV 08 finds that the inclusive peak near 3940 MeV/c² may consist of several states.