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

OMITTED FROM SUMMARY TABLE

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

X	(3940)	MASS
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<i>VALUE</i> (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
3942 ⁺ ⁷ ₆ ±6	52	PAKHLOV 08	BELL	$e^+e^- o J/\psi X$
14/ 1	c 11 ·		. 10 0.	

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

 $3943 \pm 6 \pm 6$ 3936 ± 14

¹ ABE 25 ² ABE 266

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

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.

X(3940) WIDTH

<i>VALUE</i> (MeV)	CL%	<u>EVTS</u>	DOCUMENT ID		TECN	COMMENT
$37^{+26}_{-15}\pm8$		52	PAKHLOV	08	BELL	$\mathrm{e^+e^-} ightarrow ~J/\psi X$
<52	90	25	ABE	07	BELL	$\mathrm{e^+e^-} ightarrow J/\psi X$

X(3940) DECAY MODES

	Mode	Fraction (Γ_i/Γ)
$\overline{\Gamma_1}$	$D\overline{D}^* + c.c.$	seen
Γ_2	$D\overline{D}$	not seen
Γ ₃	$J/\psi\omega$	not seen

X(3940) BRANCHING RATIOS

$\Gamma(D\overline{D}^* + c.c.)/\Gamma_{total}$

 Γ_1/Γ

DOCUMENT ID TECN COMMENT <u>CL% EVT</u>S • • • We do not use the following data for averages, fits, limits, etc. • •

25 1,2 ABF

CL%

07 BELL $e^+e^- \rightarrow J/\psi X$

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 $\Gamma(D\overline{D})/\Gamma_{\text{total}}$ Γ_2/Γ DOCUMENT ID TECN COMMENT

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

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

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

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

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

 $\Gamma(J/\psi\omega)/\Gamma_{total}$ VALUE

Output

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

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