*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 <sup>+</sup> <sup>7</sup> <sub>6</sub> ±6	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 3936±14 25 <sup>1</sup> ABE 266 <sup>2</sup> ABE 07 BELL  $e^+e^- \rightarrow J/\psi X$ 07 BELL  $e^+e^- \rightarrow J/\psi (c\overline{c})$ 

 $^{1}$  From a fit to  $D^{*+}D^{-}$  and  $D^{*0}\overline{D}{}^{0}$  events.

<sup>2</sup> From the inclusive fit. Not independent of the exclusive measurement by ABE 07.

## X(3940) WIDTH

VALUE (MeV)CL%EVTSDOCUMENT IDTECNCOMMENT $37^{+26}_{-15} \pm 8$ 52PAKHLOV08BELL $e^+e^- \rightarrow J/\psi X$ • • • We do not use the following data for averages, fits, limits, etc.• • •<52</td>9025ABE07BELL $e^+e^- \rightarrow J/\psi X$ 

#### X(3940) DECAY MODES

	Mode	Fraction $(\Gamma_i/\Gamma)$
$\overline{\Gamma_1}$	$D\overline{D}^* + \text{c.c.}$ $D\overline{D}$	seen
$\Gamma_2$	$D\overline{D}$	not seen
Γ <sub>3</sub>	$J/\psi\omega$	not seen

# X(3940) BRANCHING RATIOS

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<sup>&</sup>lt;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 MeV/c $^2$  may consist of several states.

 $\Gamma(D\overline{D})/\Gamma_{\text{total}}$  $\Gamma_2/\Gamma$ CL% DOCUMENT ID TECN COMMENT • • • We do not use the following data for averages, fits, limits, etc. • • •  $^{1,2}$  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 MeV/c<sup>2</sup> may consist of several states.  $\Gamma(J/\psi\omega)/\Gamma_{\text{total}}$  $\Gamma_3/\Gamma$ DOCUMENT ID TECN COMMENT • • • We do not use the following data for averages, fits, limits, etc. • • 1,2 ABF BELL  $e^+e^- \rightarrow J/\psi X$ 90 07 < 0.26 <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 MeV/c<sup>2</sup> may consist of several X(3940) REFERENCES (BELLE Collab.) (BELLE Collab.) PAKHLOV PRL 100 202001 80 P. Pakhlov et al. ABE 07 PRL 98 082001 K. Abe et al.

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