

X(3945)

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

Observed in $\omega J/\psi$, thus $C = +$.

X(3945) MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
3916 ± 6 OUR AVERAGE Error includes scale factor of 1.6.				
3914.6 ^{+3.8} _{-3.4} ± 2.0		¹ AUBERT	08W BABR	$B \rightarrow \omega J/\psi K$
3943 ± 11 ± 13	58 ± 11	¹ CHOI	05 BELLE	$B \rightarrow \omega J/\psi K$
¹ $\omega J/\psi$ threshold enhancement fitted as an S-wave Breit-Wigner resonance.				

X(3945) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
40⁺¹⁸₋₁₃ OUR AVERAGE Error includes scale factor of 1.5.				
34 ⁺¹² ₋₈ ± 5		² AUBERT	08W BABR	$B \rightarrow \omega J/\psi K$
87 ± 22 ± 26	58 ± 11	² CHOI	05 BELLE	$B \rightarrow \omega J/\psi K$
² $\omega J/\psi$ threshold enhancement fitted as an S-wave Breit-Wigner resonance.				

X(3945) DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $\omega J/\psi$	seen

X(3945) REFERENCES

AUBERT	08W	PRL 101 082001	B. Aubert <i>et al.</i>	(BABAR Collab.)
CHOI	05	PRL 94 182002	S.-K. Choi <i>et al.</i>	(BELLE Collab.)

OTHER RELATED PAPERS

BUISSERET	07	PR C76 025206	F. Buisseret	
SWANSON	06	PRPL 429 243	E.S. Swanson	(PITT)
VANBEVEREN	06A	PR D74 037501	E. van Beberen <i>et al.</i>	