

$\psi(4390)$

$$I^G(J^{PC}) = 0^-(1^{--})$$

I needs confirmation.

OMITTED FROM SUMMARY TABLE
was $X(4390)$

This state shows properties different from a conventional $q\bar{q}$ state.
A candidate for an exotic structure. See the review on non- $q\bar{q}$ states.

 $\psi(4390)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$4391.5^{+6.3}_{-6.8} \pm 1.0$	ABLIKIM	17G BES3	$e^+e^- \rightarrow \pi^+\pi^-h_c$

 $\psi(4390)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
$139.5^{+16.2}_{-20.6} \pm 0.6$	ABLIKIM	17G BES3	$e^+e^- \rightarrow \pi^+\pi^-h_c$

 $\psi(4390)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \pi^+\pi^-h_c$	seen

 $\psi(4390)$ BRANCHING RATIOS

$\Gamma(\pi^+\pi^-h_c)/\Gamma_{\text{total}}$	Γ_1/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
seen	ABLIKIM	17G BES3	$e^+e^- \rightarrow \pi^+\pi^-h_c$

 $\psi(4390)$ REFERENCES

ABLIKIM 17G PRL 118 092002 M. Ablikim *et al.* (BES III Collab.)