

$\psi(3836)$

$$I^G(J^{PC}) = 0^-(2^{--})$$

OMITTED FROM SUMMARY TABLE

Quantum numbers are not established.

Seen in π^\pm Li interactions by ANTONIAZZI 94 as a peak in the invariant mass of the $J/\psi(1S)\pi^+\pi^-$ system. Possibly seen also in p Li interactions. Interpretation as a $^3D_2(2^{--})$ charmonium state favored. Not seen by BAI 98E in e^+e^- interactions. Needs confirmation.

$\psi(3836)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
3836 ± 13	58 ± 21	ANTONIAZZI 94	E705	π^\pm Li $\rightarrow J/\psi\pi^+\pi^-X$

$\psi(3836)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad J/\psi(1S)\pi^+\pi^-$	seen

$\psi(3836)$ REFERENCES

BAI 98E PR D57 3854	J.Z. Bai <i>et al.</i>	(BES Collab.)
ANTONIAZZI 94 PR D50 4258	L. Antoniazzi <i>et al.</i>	(E705 Collab.)