$$\psi_3(3842)$$

$$I^G(J^{PC}) = 0^-(3^{--})$$

J, P need confirmation.

J^P has not been measured, 3^- is the quark model prediction.

$\psi_3(3842)$ MASS

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
3842.71±0.16±0.12	AAIJ	19M	LHCB	$pp \to D\overline{D} +$ anything

$\psi_3(3842)$ WIDTH

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
2.79±0.51±0.35	AAIJ	19M	LHCB	$pp \to D\overline{D} +$ anything

$\psi_3(3842)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	D^+D^-	seen
Γ_2	$D^0\overline{D}^0$	seen

$\psi_3(3842)$ BRANCHING RATIOS

$\Gamma(D^+D^-)/\Gamma_{total}$ Γ_1/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AAIJ	19M	LHCB	$pp \to D\overline{D} +$ anything

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

possibly seen	[1] ABLIKIM	22AL	BES3	$e^+e^- \to \pi^+\pi^- D^+D^-$

[1] From a fit to the $\pi^+\pi^-$ recoil mass for $e^+e^- \to D^+D^-\pi^+\pi^-$.

$\Gamma(D^0\overline{D}^0)/\Gamma_{total}$ Γ_2/Γ

VALUE	DOCUMENT ID		TECN	COMMENT
seen	AAIJ	19M	LHCB	$pp \to D\overline{D} +$ anything

$\psi_3(3842)$ REFERENCES

ABLIKIM	22AL	PR D106 052012	M. Ablikim *et al.*	(BESIII Collab.)
AAIJ	19M	JHEP 1907 035	R. Aaij *et al.*	(LHCb Collab.)