$\psi_3(3842)$

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

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

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

$\psi_3(3842)$ REFERENCES

AAIJ   19M   JHEP 1907 035   R. Aaij *et al.*   (LHCb Collab.)