

$\psi_3(3842)$

$I^G(J^{PC}) = 0^-(3^{--})$
 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	$p p \rightarrow D\bar{D} +$ anything

$\psi_3(3842)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
2.79±0.51±0.35	AAIJ	19M LHCb	$p p \rightarrow D\bar{D} +$ anything

$\psi_3(3842)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 D^+ D^-$	seen
$\Gamma_2 D^0 \bar{D}^0$	seen

$\psi_3(3842)$ BRANCHING RATIOS

$\Gamma(D^+ D^-)/\Gamma_{\text{total}}$	Γ_1/Γ
seen	AAIJ 19M LHCb $p p \rightarrow D\bar{D} +$ anything

$\Gamma(D^0 \bar{D}^0)/\Gamma_{\text{total}}$	Γ_2/Γ
seen	AAIJ 19M LHCb $p p \rightarrow D\bar{D} +$ anything

$\psi_3(3842)$ REFERENCES

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