

$\psi_3(3842)$

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

 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
$3842.71 \pm 0.16 \pm 0.12$	AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$

$\psi_3(3842)$ WIDTH

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

$\psi_3(3842)$ DECAY MODES

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

$\psi_3(3842)$ BRANCHING RATIOS

$\Gamma(D^+ D^-)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
seen		AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$	

$\Gamma(D^0 \bar{D}^0)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	Γ_2/Γ
seen		AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$	

$\psi_3(3842)$ REFERENCES

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