

$\psi_3(3842)$

$I^G(J^{PC}) = 0^-(3^{--})$
 J, P need confirmation.

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

NODE=M241

NODE=M241

NODE=M241M

NODE=M241M

NODE=M241W

NODE=M241W

NODE=M241215;NODE=M241

DESIG=1

DESIG=2

NODE=M241225

NODE=M241R01
NODE=M241R01

NODE=M241R01;LINKAGE=A

NODE=M241R02
NODE=M241R02

NODE=M241

REFID=61884
REFID=59697

$\psi_3(3842)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
3842.71±0.16±0.12	AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$

$\psi_3(3842)$ WIDTH

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

$\psi_3(3842)$ DECAY MODES

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

$\psi_3(3842)$ BRANCHING RATIOS

$\Gamma(D^+ D^-)/\Gamma_{\text{total}}$ Γ_1/Γ

VALUE	DOCUMENT ID	TECN	COMMENT
seen	AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$

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

possibly seen ¹ ABLIKIM 22AL BES3 $e^+ e^- \rightarrow \pi^+ \pi^- D^+ D^-$

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

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

VALUE	DOCUMENT ID	TECN	COMMENT
seen	AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$

$\psi_3(3842)$ REFERENCES

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