

$\psi_3(3842)$

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

$$\Gamma(D^+ D^-)/\Gamma_{\text{total}} \quad \Gamma_1/\Gamma$$

VALUE	DOCUMENT ID	TECN	COMMENT
seen	AAIJ	19M LHCb	$p p \rightarrow D\bar{D} +$ 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 $e^+ e^- \rightarrow D^+ D^- \pi^+ \pi^-$.

$$\Gamma(D^0 \bar{D}^0)/\Gamma_{\text{total}} \quad \Gamma_2/\Gamma$$

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

$\psi_3(3842)$ REFERENCES

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