

$\psi_3(3842)$ 

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

$J, P$  need confirmation.

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

 **$\psi_3(3842)$  MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>3842.71 \pm 0.16 \pm 0.12</math></b>	AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$

 **$\psi_3(3842)$  WIDTH**

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

 **$\psi_3(3842)$  DECAY MODES**

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

 **$\psi_3(3842)$  BRANCHING RATIOS**

$\Gamma(D^+ D^-)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	$\Gamma_1/\Gamma$
<b>seen</b>		AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$	

$\Gamma(D^0 \bar{D}^0)/\Gamma_{\text{total}}$	VALUE	DOCUMENT ID	TECN	COMMENT	$\Gamma_2/\Gamma$
<b>seen</b>		AAIJ	19M LHCb	$pp \rightarrow D\bar{D} + \text{anything}$	

 **$\psi_3(3842)$  REFERENCES**

AAIJ	19M	JHEP 1907 035	R. Aaij <i>et al.</i>	(LHCb Collab.)
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