

# $\chi_{c2}(2P)$

$$I^G(J^{PC}) = 0^+(2^{++})$$

## $\chi_{c2}(2P)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>3929±5±2</b>	64	UEHARA 06	BELL	10.6 $e^+e^- \rightarrow e^+e^- D\bar{D}$

## $\chi_{c2}(2P)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>29±10±2</b>	64	UEHARA 06	BELL	10.6 $e^+e^- \rightarrow e^+e^- D\bar{D}$

## $\chi_{c2}(2P)$ DECAY MODES

Mode
$\Gamma_1$ $\gamma\gamma$
$\Gamma_2$ $D\bar{D}$
$\Gamma_3$ $D^+D^-$
$\Gamma_4$ $D^0\bar{D}^0$

## $\chi_{c2}(2P)$ PARTIAL WIDTHS

————  $\chi_{c2}(2P)$   $\Gamma(\gamma\gamma)\Gamma(i)/\Gamma(\text{total})$  ————

$\Gamma(\gamma\gamma) \times \Gamma(D\bar{D})/\Gamma_{\text{total}}$	VALUE (keV)	EVTS	DOCUMENT ID	TECN	COMMENT	$\Gamma_1\Gamma_2/\Gamma$
<b>0.18±0.05±0.03</b>	64	<sup>1</sup> UEHARA 06	BELL	10.6 $e^+e^- \rightarrow e^+e^- D\bar{D}$		

<sup>1</sup> Assuming  $B(D^+D^-) = 0.89 B(D^0\bar{D}^0)$ .

## $\chi_{c2}(2P)$ BRANCHING RATIOS

$\Gamma(D^+D^-)/\Gamma(D^0\bar{D}^0)$	VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	$\Gamma_3/\Gamma_4$
<b>0.74±0.43±0.16</b>	64	UEHARA 06	BELL	10.6 $e^+e^- \rightarrow e^+e^- D\bar{D}$		

## $\chi_{c2}(2P)$ REFERENCES

UEHARA 06 PRL 96 082003 S. Uehara *et al.* (BELLE Collab.)

## ———— OTHER RELATED PAPERS ————

EICHTEN 06 PR D73 014014 E.J. Eichten, K. Lane, C. Quigg  
 SWANSON 06 PRPL 429 243 E.S. Swanson (PITT)