

$\chi_{c2}(2P)$

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

OMITTED FROM SUMMARY TABLE

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

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
3929±5±2	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
29±10±2	64	UEHARA 06	BELL	10.6 $e^+e^- \rightarrow e^+e^- D\bar{D}$

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

Mode
Γ_1 $\gamma\gamma$
Γ_2 $D\bar{D}$
Γ_3 D^+D^-
Γ_4 $D^0\bar{D}^0$

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

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

¹ Assuming $B(D^+D^-) = 0.89 B(D^0\bar{D}^0)$. $\chi_{c2}(2P)$ BRANCHING RATIOS

$\Gamma(D^+D^-)/\Gamma(D^0\bar{D}^0)$	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_3/Γ_4
0.74±0.43±0.16	64	UEHARA 06	BELL	10.6 $e^+e^- \rightarrow e^+e^- D\bar{D}$	

 $\chi_{c2}(2P)$ REFERENCESUEHARA 06 PRL 96 082003 S. Uehara *et al.* (BELLE Collab.)

OTHER RELATED PAPERS

BUISSERET 07 PR C76 025206	F. Buisseret
EICHTEN 06 PR D73 014014	E.J. Eichten, K. Lane, C. Quigg
SWANSON 06 PRPL 429 243	E.S. Swanson (PITT)