$\chi_{c2}(2P)$

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

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

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
3929±5±2	64	UEHARA	06	BELL	10.6 $e^+e^- \to e^+e^- D\overline{D}$

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

VALUE (MeV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
29±10±2	64	UEHARA	06	BELL	10.6 $e^+e^- \to e^+e^- D\overline{D}$

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

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

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

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

$\Gamma(\gamma\gamma) \times \Gamma(D\overline{D})/\Gamma_{\text{total}}$ **$\Gamma_1\Gamma_2/\Gamma$**

VALUE (keV)	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
0.18±0.05±0.03	64	[1] UEHARA	06	BELL	10.6 $e^+e^- \to e^+e^- D\overline{D}$

[1] Assuming $B(D^+D^-) = 0.89\ B(D^0\overline{D}^0)$.

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

$\Gamma(D^+D^-)/\Gamma(D^0\overline{D}^0)$ **Γ_3/Γ_4**

VALUE	*EVTS*	*DOCUMENT ID*		*TECN*	*COMMENT*
0.74±0.43±0.16	64	UEHARA	06	BELL	10.6 $e^+e^- \to e^+e^- D\overline{D}$

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