

$\chi_{c2}(2P)$

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

OMITTED FROM SUMMARY TABLE

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

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

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

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

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

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

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

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

<u>VALUE (keV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	$\Gamma_1\Gamma_2/\Gamma$
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

<u>VALUE</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	Γ_3/Γ_4
0.74±0.43±0.16	64	UEHARA 06	BELL	10.6 $e^+e^- \rightarrow e^+e^- D\bar{D}$	

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

UEHARA 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)