

$\chi_{c0}(3860)$

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

OMITTED FROM SUMMARY TABLE

The assignment $J^P = 0^+$ is preferred over 2^+ by 2.5 sigma.

Observed by CHILIKIN 17 using full amplitude analysis of the process $e^+e^- \rightarrow J/\psi D\overline{D}$, where $D = D^0, D^+$. Not seen by AAIJ 20AI in the decay $B^+ \rightarrow D^+ D^- K^+$.

$\chi_{c0}(3860)$ MASS				
VALUE (MeV)	DOCUMENT ID	TECN	COMMENT	
3862^{+26+40}_{-32-13}	CHILIKIN	17	BELL	$e^+e^- \rightarrow J/\psi D\overline{D}$

$\chi_{c0}(3860)$ WIDTH				
VALUE (MeV)	DOCUMENT ID	TECN	COMMENT	
$201^{+154+88}_{-67-82}$	CHILIKIN	17	BELL	$e^+e^- \rightarrow J/\psi D\overline{D}$

$\chi_{c0}(3860)$ DECAY MODES				
Mode		Fraction (Γ_i/Γ)		
Γ_1	$D^0\overline{D}^0$	seen		
Γ_2	D^+D^-	seen		

$\chi_{c0}(3860)$ BRANCHING RATIOS				
$\Gamma(D^0\overline{D}^0)/\Gamma_{\text{total}}$				Γ_1/Γ
VALUE	DOCUMENT ID	TECN	COMMENT	
seen	CHILIKIN	17	BELL	$e^+e^- \rightarrow J/\psi D^0\overline{D}^0$
$\Gamma(D^+D^-)/\Gamma_{\text{total}}$				Γ_2/Γ
VALUE	DOCUMENT ID	TECN	COMMENT	
seen	CHILIKIN	17	BELL	$e^+e^- \rightarrow J/\psi D^+D^-$

$\chi_{c0}(3860)$ REFERENCES				
AAIJ	20AI	PR D102 112003	R. Aaij et al.	(LHCb Collab.)
CHILIKIN	17	PR D95 112003	K. Chilikin et al.	(BELLE Collab.) JPC