

**X(4230)** $I^G(J^{PC}) = ?^?(1^{--})$ 

## OMITTED FROM SUMMARY TABLE

Enhancement reported by ABLIKIM 15C in  $e^+ e^- \rightarrow \omega \chi_{c0}$  at  $\sqrt{s} = 4.23\text{--}4.26$  GeV at  $9\sigma$  significance. Lineshape found to be inconsistent with origination from  $X(4260)$ . NEEDS CONFIRMATION.

**X(4230) MASS**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>4230±8±6</b>	180	<sup>1</sup> ABLIKIM	15C	$e^+ e^- \rightarrow \omega \chi_{c0}$

<sup>1</sup> From a 3-parameter fit of measured cross sections from  $\sqrt{s} = 4.21\text{--}4.42$  GeV to a phase-space modified Breit-Wigner function, using the decays  $\chi_{c0} \rightarrow \pi^+ \pi^-$ ,  $\chi_{c0} \rightarrow K^+ K^-$ , and  $\omega \rightarrow \pi^+ \pi^- \pi^0$ .

**X(4230) WIDTH**

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>38±12±2</b>	180	<sup>1</sup> ABLIKIM	15C	$e^+ e^- \rightarrow \omega \chi_{c0}$

<sup>1</sup> From a 3-parameter fit of measured cross sections from  $\sqrt{s} = 4.21\text{--}4.42$  GeV to a phase-space modified Breit-Wigner function, using the decays  $\chi_{c0} \rightarrow \pi^+ \pi^-$ ,  $\chi_{c0} \rightarrow K^+ K^-$ , and  $\omega \rightarrow \pi^+ \pi^- \pi^0$ .

**X(4230) DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $e^+ e^-$	
$\Gamma_2$ $\omega \chi_{c0}$	seen

**X(4230)  $\Gamma(i)\Gamma(e^+ e^-)/\Gamma(\text{total})$**  **$\Gamma(\omega \chi_{c0}) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$**  $\Gamma_2\Gamma_1/\Gamma$ 

VALUE (eV)	EVTS	DOCUMENT ID	TECN	COMMENT
<b>2.7±0.5±0.4</b>	180	<sup>1</sup> ABLIKIM	15C	$e^+ e^- \rightarrow \omega \chi_{c0}$

<sup>1</sup> From a 3-parameter fit of measured cross sections from  $\sqrt{s} = 4.21\text{--}4.42$  GeV to a phase-space modified Breit-Wigner function, using the decays  $\chi_{c0} \rightarrow \pi^+ \pi^-$ ,  $\chi_{c0} \rightarrow K^+ K^-$ , and  $\omega \rightarrow \pi^+ \pi^- \pi^0$ .

**X(4230) BRANCHING RATIOS** **$\Gamma(\omega \chi_{c0})/\Gamma_{\text{total}}$**  $\Gamma_2/\Gamma$ 

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT
<b>seen</b>	180	<sup>1</sup> ABLIKIM	15C	$e^+ e^- \rightarrow \omega \chi_{c0}$

<sup>1</sup> From a 3-parameter fit of measured cross sections from  $\sqrt{s} = 4.21\text{--}4.42$  GeV to a phase-space modified Breit-Wigner function, using the decays  $\chi_{c0} \rightarrow \pi^+ \pi^-$ ,  $\chi_{c0} \rightarrow K^+ K^-$ , and  $\omega \rightarrow \pi^+ \pi^- \pi^0$ .

**X(4230) REFERENCES**