

$X(3900)^0$

$I(J^P) = ?(??)$

OMITTED FROM SUMMARY TABLE
Seen by XIAO 13A in $e^+e^- \rightarrow \pi^0 X^0, X^0 \rightarrow \pi^0 J/\psi$ at $\sqrt{s} = 4170$ MeV. Likely the isospin partner of the $X(3900)^\pm$.

NODE=M211

NODE=M211

$X(3900)^0$ MASS

NODE=M211M

VALUE (MeV)	EVTS	DOCUMENT ID	COMMENT
$3904 \pm 9 \pm 5$	25 ± 7	¹ XIAO	13A $4.17 e^+ e^- \rightarrow \pi^+ \pi^- J/\psi$

NODE=M211M

¹ For $M^2(\pi^0 \pi^0) < 0.65 \text{ GeV}^2$ and fixed width of 37 MeV. The signal has 3.5σ significance including systematic uncertainties. Obtained by analyzing CLEO-c data but not authored by the CLEO Collaboration.

NODE=M211M;LINKAGE=A

$X(3900)^0$ DECAY MODES

NODE=M211215;NODE=M211

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad J/\psi \pi^0$	seen
$\Gamma_2 \quad J/\psi \eta$	not seen

DESIG=1

DESIG=2

$X(3900)^0$ BRANCHING RATIOS

NODE=M211225

$\Gamma(J/\psi\pi^0)/\Gamma_{\text{total}}$			Γ_1/Γ
VALUE	EVTS	DOCUMENT ID	COMMENT
seen	25 ± 7	¹ XIAO	13A $4.17\ e^+e^- \rightarrow \pi^+\pi^- J/\psi$

NODE=M211R01
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¹ Obtained by analyzing CLEO-c data but not authored by the CLEO Collaboration.

NODE=M211R01;LINKAGE=A

$\Gamma(J/\psi\eta)/\Gamma_{\text{total}}$	Γ_2/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
not seen	ABLIKIM	15Q BES3	$4.0\text{--}4.6\ e^+e^- \rightarrow J/\psi\eta\pi^0$

NODE=M211R02
NODE=M211R02

$\Gamma(J/\psi\eta)/\Gamma(J/\psi\pi^0)$					Γ_2/Γ_1
VALUE	CL%	DOCUMENT ID	TECN	COMMENT	
<0.15	90	ABLIKIM	15Q	BES3	$4.226\ e^+e^- \rightarrow J/\psi\eta\pi^0$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
<0.65	90	ABLIKIM	15Q	BES3	$4.257\ e^+e^- \rightarrow J/\psi\eta\pi^0$

NODE=M211R03
NODE=M211R03

OCCUR=2

$X(3900)^0$ REFERENCES

NODE=M211

ABLIKIM	15Q	PR D92 012008	M. Ablikim <i>et al.</i>	(BES III Collab.)
XIAO	13A	PL B727 366	T. Xiao <i>et al.</i>	(NWES)

REFID=56782
REFID=55593