

**X(4360)**

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

## OMITTED FROM SUMMARY TABLE

Seen in radiative return from  $e^+e^-$  collisions at  $\sqrt{s} = 9.54\text{--}10.58$  GeV by AUBERT 07S and WANG 07D. See also the review under the X(3872) particle listings. (See the index for the page number.)

**X(4360) MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>4361 ± 9 ± 9</b>	<sup>1</sup> WANG	07D BELL	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
4324 ± 24	<sup>2</sup> AUBERT	07S BABR	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
<sup>1</sup> From a two-resonance fit.			
<sup>2</sup> From a single-resonance fit. Systematic errors not estimated.			

**X(4360) WIDTH**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>74 ± 15 ± 10</b>	<sup>3</sup> WANG	07D BELL	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
172 ± 33	<sup>4</sup> AUBERT	07S BABR	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
<sup>3</sup> From a two-resonance fit.			
<sup>4</sup> From a single-resonance fit. Systematic errors not estimated.			

**X(4360) DECAY MODES**

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $e^+e^-$	
$\Gamma_2$ $\psi(2S)\pi^+\pi^-$	seen

**X(4360)  $\Gamma(i)\Gamma(e^+e^-)/\Gamma(\text{total})$** 

$\Gamma(\psi(2S)\pi^+\pi^-) \times \Gamma(e^+e^-)/\Gamma_{\text{total}}$	$\Gamma_2\Gamma_1/\Gamma$		
VALUE (eV)	DOCUMENT ID	TECN	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
10.4 ± 1.7 ± 1.5	<sup>5</sup> WANG	07D BELL	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
11.8 ± 1.8 ± 1.4	<sup>6</sup> WANG	07D BELL	10.58 $e^+e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
<sup>5</sup> Solution I of two equivalent solutions in a fit using two interfering resonances.			
<sup>6</sup> Solution II of two equivalent solutions in a fit using two interfering resonances.			

**X(4360) REFERENCES**

AUBERT	07S	PRL 98 212001	B. Aubert <i>et al.</i>	(BABAR Collab.)
WANG	07D	PRL 99 142002	X.-L. Wang <i>et al.</i>	(BELLE Collab.)

————— **OTHER RELATED PAPERS** —————

DING	08	PR D77 014033	G.-J. Ding, J.-J. Zhu, M.-L. Yan
KALASHNIK...	08	PR D77 054025	Yu.S. Kalashnikova, A.V. Nefediev

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