

**X(4360)** $I^G(J^{PC}) = ?^?(1^{--})$ 

## OMMITTED 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>	1 WANG	07D BELL	$10.58 e^+ e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
$4355^{+9}_{-10}\pm 9$	2 LIU	08H RVUE	$10.58 e^+ e^- \rightarrow \psi(2S)\pi^+\pi^-\gamma$
$4324\pm 24$	3 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 combined fit of AUBERT 07S and WANG 07D data with two resonances.<sup>3</sup> From a single-resonance fit. Systematic errors not estimated.**X(4360) WIDTH**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b>74±15±10</b>	4 WANG	07D BELL	$10.58 e^+ e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>			
$103^{+17}_{-15}\pm 11$	5 LIU	08H RVUE	$10.58 e^+ e^- \rightarrow \psi(2S)\pi^+\pi^-\gamma$
$172\pm 33$	6 AUBERT	07S BABR	$10.58 e^+ e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$

<sup>4</sup> From a two-resonance fit.<sup>5</sup> From a combined fit of AUBERT 07S and WANG 07D data with two resonances.<sup>6</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)  $\Gamma(i)\Gamma(e^+e^-)/\Gamma(\text{total})$** 

VALUE (eV)	DOCUMENT ID	TECN	COMMENT	$\Gamma_2\Gamma_1/\Gamma$
<b>• • •</b> We do not use the following data for averages, fits, limits, etc. <b>• • •</b>				
$11.1^{+1.3}_{-1.2}$	7 LIU	08H RVUE	$10.58 e^+ e^- \rightarrow \psi(2S)\pi^+\pi^-\gamma$	
$12.3\pm 1.2$	8 LIU	08H RVUE	$10.58 e^+ e^- \rightarrow \psi(2S)\pi^+\pi^-\gamma$	
$10.4\pm 1.7\pm 1.5$	9 WANG	07D BELL	$10.58 e^+ e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$	
$11.8\pm 1.8\pm 1.4$	10 WANG	07D BELL	$10.58 e^+ e^- \rightarrow \gamma\pi^+\pi^-\psi(2S)$	

<sup>7</sup> Solution I in a combined fit of AUBERT 07S and WANG 07D data with two resonances.

<sup>8</sup> Solution II in a combined fit of AUBERT 07S and WANG 07D data with two resonances.

<sup>9</sup> Solution I of two equivalent solutions in a fit using two interfering resonances.

<sup>10</sup> Solution II of two equivalent solutions in a fit using two interfering resonances.

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## X(4360) REFERENCES

LIU	08H	PR D78 014032	Z.Q. Liu, X.S. Qin, C.Z. Yuan	
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.)

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