$Y(4260)$

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

OMITTED FROM SUMMARY TABLE

Seen by AUBERT,B 05I in radiative return from $e^+ e^-$ collisions at the 10.6 GeV center-of-mass energy and by AUBERT 06 in $B^- \to K^- \pi^+ \pi^- J/\psi$. Interpretation as due to two interfering resonances is not excluded.

$Y(4260)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
$\mathbf{4259\pm 8^{+2}_{-6}}$	125	[1] AUBERT,B	05I	BABR	10.58 $e^+ e^- \to \gamma \pi^+ \pi^- J/\psi$

[1] From a single-resonance fit. Two interfering resonances, one with close mass and a width of 50 MeV and another narrow at 4330 MeV, are not excluded.

$Y(4260)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID		TECN	COMMENT
$\mathbf{88\pm23^{+6}_{-4}}$	125	[2] AUBERT,B	05I	BABR	10.58 $e^+ e^- \to \gamma \pi^+ \pi^- J/\psi$

[2] From a single-resonance fit. Two interfering resonances, one with close mass and a width of 50 MeV and another narrow at 4330 MeV, are not excluded.

$Y(4260)$ DECAY MODES

	Mode	Fraction (Γ_i/Γ)
Γ_1	$e^+ e^-$	
Γ_2	$J/\psi \pi^+ \pi^-$	seen
Γ_3	$J/\psi \pi^0 \pi^0$	[a] seen
Γ_4	$J/\psi K^+ K^-$	[a] seen
Γ_5	$J/\psi \eta$	[a] not seen
Γ_6	$J/\psi \pi^0$	[a] not seen
Γ_7	$J/\psi \eta'$	[a] not seen
Γ_8	$J/\psi \pi^+ \pi^- \pi^0$	[a] not seen
Γ_9	$J/\psi \eta \eta$	[a] not seen
Γ_{10}	$\psi(2S) \pi^+ \pi^-$	[a] not seen
Γ_{11}	$\psi(2S) \eta$	[a] not seen
Γ_{12}	$\chi_{c0} \omega$	[a] not seen
Γ_{13}	$\chi_{c1} \gamma$	[a] not seen
Γ_{14}	$\chi_{c2} \gamma$	[a] not seen
Γ_{15}	$\chi_{c1} \pi^+ \pi^- \pi^0$	[a] not seen
Γ_{16}	$\chi_{c2} \pi^+ \pi^- \pi^0$	[a] not seen
Γ_{17}	$\phi \pi^+ \pi^-$	[a] not seen
Γ_{18}	$p\overline{p}$	

[a] See COAN 06 for details.

$Y(4260)$ $\Gamma(i)\Gamma(e^+ e^-)/\Gamma(\text{total})$

$\Gamma(J/\psi\pi^+\pi^-) \times \Gamma(e^+ e^-)/\Gamma_{\text{total}}$ $\qquad\qquad$ $\Gamma_2\Gamma_1/\Gamma$

VALUE	EVTS	DOCUMENT ID		TECN	COMMENT
$\mathbf{5.5\pm1.0^{+0.8}_{-0.7}}$	125	[3] AUBERT,B	05I	BABR	10.58 $e^+ e^- \to \gamma\pi^+\pi^- J/\psi$

[3] From a single-resonance fit. Two interfering resonances, one with close mass and a width of 50 MeV and another narrow at 4330 MeV, are not excluded.

$Y(4260)$ BRANCHING RATIOS

$\Gamma(p\overline{p})/\Gamma(J/\psi\pi^+\pi^-)$ $\qquad\qquad$ Γ_{18}/Γ_2

VALUE	CL%	DOCUMENT ID		COMMENT
<0.13	90	[4] AUBERT	06B	$e^+ e^- \to p\overline{p}\gamma$

[4] Using 4259 ± 10 MeV for the mass and 88 ± 24 MeV for the width of $Y(4260)$.

$Y(4260)$ REFERENCES

AUBERT	06	PR D73 011101R	B. Aubert *et al.*	(BABAR Collab.)
AUBERT	06B	PR D73 012005	B. Aubert *et al.*	(BABAR Collab.)
COAN	06	PRL 96 162003	T.E. Coan *et al.*	(CLEO Collab.)
AUBERT,B	05I	PRL 95 142001	B. Aubert *et al.*	(BABAR Collab.)

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