

$\eta_2(1870)$

$$I^G(J^{PC}) = 0^+(2^{-+})$$

OMITTED FROM SUMMARY TABLE

Needs confirmation.

$\eta_2(1870)$ MASS

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
1854 ± 20 OUR AVERAGE					
1840 ± 25		BARBERIS	97B OMEG		450 $pp \rightarrow$ $pp2(\pi^+\pi^-)$
1875 ± 20 ± 35		ADOMEIT	96 CBAR 0		1.94 $\bar{p}p \rightarrow \eta 3\pi^0$
1881 ± 32 ± 40	26	KARCH	92 CBAL		$e^+e^- \rightarrow$ $e^+e^-\eta\pi^0\pi^0$

$\eta_2(1870)$ WIDTH

<u>VALUE (MeV)</u>	<u>EVTS</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
202 ± 30 OUR AVERAGE					
200 ± 40		BARBERIS	97B OMEG		450 $pp \rightarrow$ $pp2(\pi^+\pi^-)$
200 ± 25 ± 45		ADOMEIT	96 CBAR 0		1.94 $\bar{p}p \rightarrow \eta 3\pi^0$
221 ± 92 ± 44	26	KARCH	92 CBAL		$e^+e^- \rightarrow$ $e^+e^-\eta\pi^0\pi^0$

$\eta_2(1870)$ DECAY MODES

Mode	
Γ_1	$\eta\pi\pi$
Γ_2	$a_2(1320)\pi$
Γ_3	$f_2(1270)\eta$

$\eta_2(1870)$ BRANCHING RATIOS

$\Gamma(a_2(1320)\pi)/\Gamma(f_2(1270)\eta)$	Γ_2/Γ_3			
<u>VALUE</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
4.1 ± 2.3	ADOMEIT	96	CBAR 0	1.94 $\bar{p}p \rightarrow \eta 3\pi^0$

$\eta_2(1870)$ REFERENCES

BARBERIS	97B	PL B413 217	D. Barberis+	(WA102 Collab.)
ADOMEIT	96	ZPHY C71 227	+Amsler, Armstrong+	(Crystal Barrel Collab.)
KARCH	92	ZPHY C54 33	+Antreasyan, Bartels+	(Crystal Ball Collab.)

OTHER RELATED PAPERS

KARCH	90	PL B249 353	+Antreasyan, Bartels+	(Crystal Ball Collab.)
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