

$\pi_2(1880)$

$$I^G(J^{PC}) = 1^-(2^{-+})$$

$\pi_2(1880)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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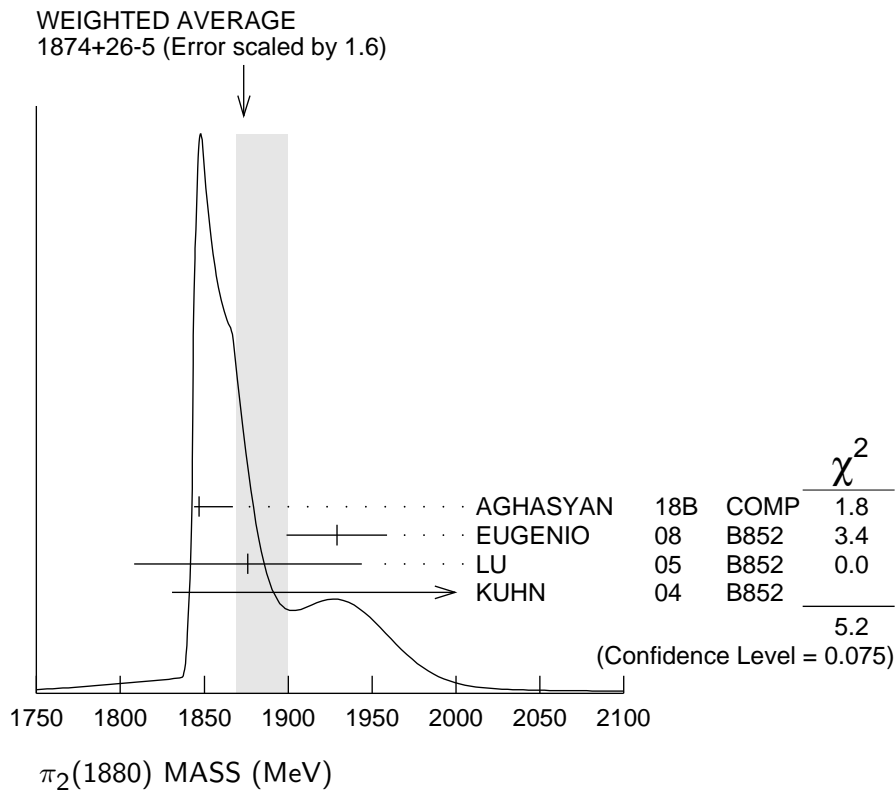
1874⁺²⁶₋₅ OUR AVERAGE Error includes scale factor of 1.6. See the ideogram below.

1847 ⁺²⁰ ₋₃	46M	¹ AGHASYAN	18B	COMP	190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$
1929 ± 24 ± 18	4k	EUGENIO	08	B852	– 18 $\pi^- p \rightarrow \eta \eta \pi^- p$
1876 ± 11 ± 67	145k	LU	05	B852	– 18 $\pi^- p \rightarrow \omega \pi^- \pi^0 p$
2003 ± 88 ± 148	69k	KUHN	04	B852	– 18 $\pi^- p \rightarrow \eta \pi^+ \pi^- \pi^- p$

• • • We do not use the following data for averages, fits, limits, etc. • • •

1880 ± 20		ANISOVICH	01B	SPEC	0 0.6–1.94 $\bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$
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¹Statistical error negligible.



$\pi_2(1880)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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237⁺³³₋₃₀ OUR AVERAGE Error includes scale factor of 1.2.

246 ⁺³³ ₋₂₈	46M	² AGHASYAN	18B	COMP	190 $\pi^- p \rightarrow \pi^- \pi^+ \pi^- p$
323 ± 87 ± 43	4k	EUGENIO	08	B852	– 18 $\pi^- p \rightarrow \eta \eta \pi^- p$

$146 \pm 17 \pm 62$	145k	LU	05	B852	–	$18 \pi^- p \rightarrow \omega \pi^- \pi^0 p$
$306 \pm 132 \pm 121$	69k	KUHN	04	B852	–	$18 \pi^- p \rightarrow \eta \pi^+ \pi^- \pi^- p$
• • • We do not use the following data for averages, fits, limits, etc. • • •						
255 ± 45		ANISOVICH	01B	SPEC	0	$0.6\text{--}1.94 \bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$

²Statistical error negligible.

$\pi_2(1880)$ DECAY MODES

Mode	
Γ_1	$\eta \eta \pi^-$
Γ_2	$a_0(980) \eta$
Γ_3	$a_2(1320) \eta$
Γ_4	$f_0(1500) \pi$
Γ_5	$f_1(1285) \pi$
Γ_6	$\omega \pi^- \pi^0$

$\Gamma(a_2(1320)\eta)/\Gamma(f_1(1285)\pi)$ Γ_3/Γ_5

VALUE	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

22.7 ± 7.3	69k	KUHN	04	B852	–	$18 \pi^- p \rightarrow \eta \pi^+ \pi^- \pi^- p$
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$\Gamma(f_0(1500)\pi)/\Gamma(a_0(980)\eta)$ Γ_4/Γ_2

VALUE	DOCUMENT ID	TECN	CHG	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

$0.28^{+0.20}_{-0.15}$	³ ANISOVICH	01B	SPEC	0	$0.6\text{--}1.94 \bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$
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³Systematic errors not estimated.

$\pi_2(1880)$ REFERENCES

AGHASYAN	18B	PR D98 092003	M. Aghasyan <i>et al.</i>	(COMPASS Collab.)
EUGENIO	08	PL B660 466	P. Eugenio <i>et al.</i>	(BNL E852 Collab.)
LU	05	PRL 94 032002	M. Lu <i>et al.</i>	(BNL E852 Collab.)
KUHN	04	PL B595 109	J. Kuhn <i>et al.</i>	(BNL E852 Collab.)
ANISOVICH	01B	PL B500 222	A.V. Anisovich <i>et al.</i>	