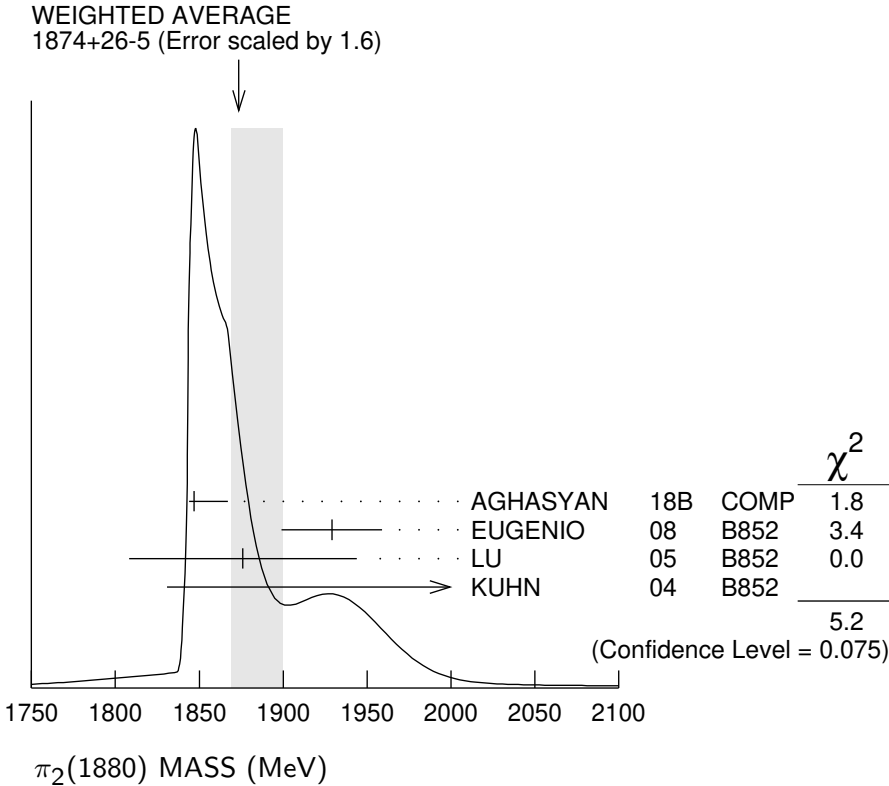


$\pi_2(1880)$

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

$\pi_2(1880)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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 $\pm$ 24 $\pm$ 18	4k	EUGENIO	08	B852	– 18 $\pi^- p \rightarrow \eta \eta \pi^- p$
1876 $\pm$ 11 $\pm$ 67	145k	LU	05	B852	– 18 $\pi^- p \rightarrow \omega \pi^- \pi^0 p$
2003 $\pm$ 88 $\pm$ 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 $\pm$ 20		ANISOVICH	01B	SPEC	0 0.6–1.94 $\bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$
¹ Statistical error negligible.					



$\pi_2(1880)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
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 $\pm$ 87 $\pm$ 43	4k	EUGENIO	08	B852	– 18 $\pi^- p \rightarrow \eta \eta \pi^- p$

146 ± 17 ± 62	145k	LU	05	B852	—	18	$\pi^- p \rightarrow \omega \pi^- \pi^0 p$
306 ± 132 ± 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	0.6–1.94	$\bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$
² Statistical error negligible.							

$\pi_2(1880)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
$\Gamma_1 \quad \eta \eta \pi^-$	seen
$\Gamma_2 \quad a_0(980) \eta$	seen
$\Gamma_3 \quad a_2(1320) \eta$	seen
$\Gamma_4 \quad f_0(1500) \pi$	seen
$\Gamma_5 \quad f_1(1285) \pi$	seen
$\Gamma_6 \quad \omega \pi^- \pi^0$	seen

$\Gamma(a_2(1320)\eta)/\Gamma(f_1(1285)\pi)$						Γ_3/Γ_5
VALUE	EVTS	DOCUMENT ID	TECN	CHG	COMMENT	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
22.7 ± 7.3	69k	KUHN	04	B852	—	18 $\pi^- p \rightarrow \eta \pi^+ \pi^- \pi^- p$

$\Gamma(f_0(1500)\pi)/\Gamma(a_0(980)\eta)$						Γ_4/Γ_2
VALUE		DOCUMENT ID	TECN	CHG	COMMENT	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
0.28 ^{+0.20} _{−0.15}		³ ANISOVICH	01B	SPEC	0	0.6–1.94 $\bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$

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>	