

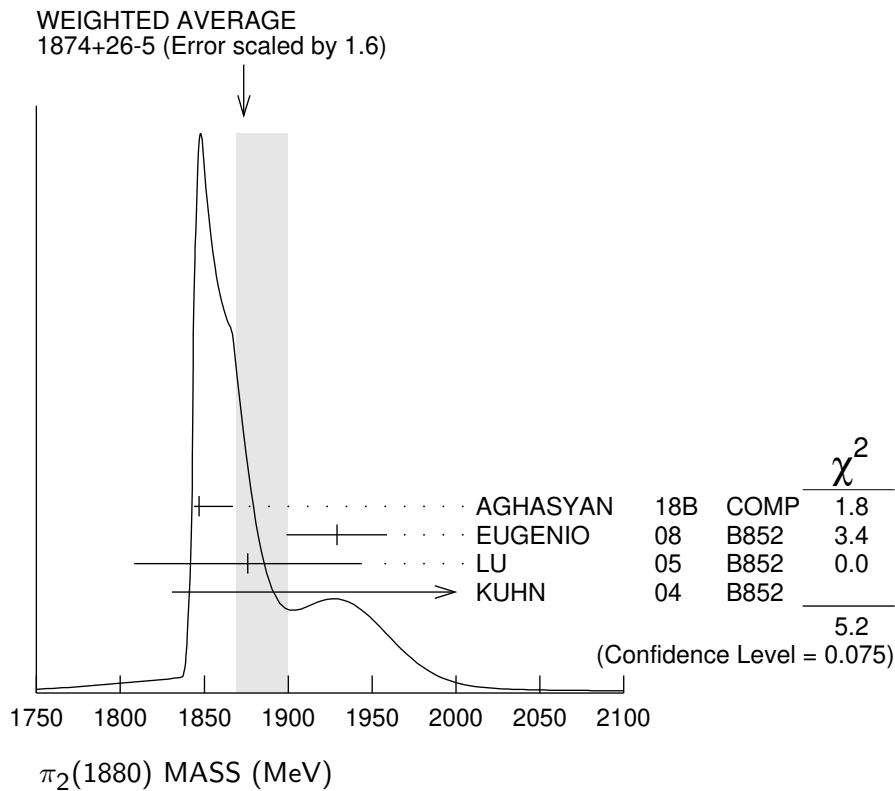
$\pi_2(1880)$

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

$\pi_2(1880)$ 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 $\bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$

¹Statistical 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 $\pi^- p \rightarrow \eta \eta \pi^- p$

$146 \pm 17 \pm 62$ 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 $0.6-1.94 \bar{p} p \rightarrow \eta \eta \pi^0 \pi^0$

²Statistical error negligible.

$\pi_2(1880)$ DECAY MODES

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