

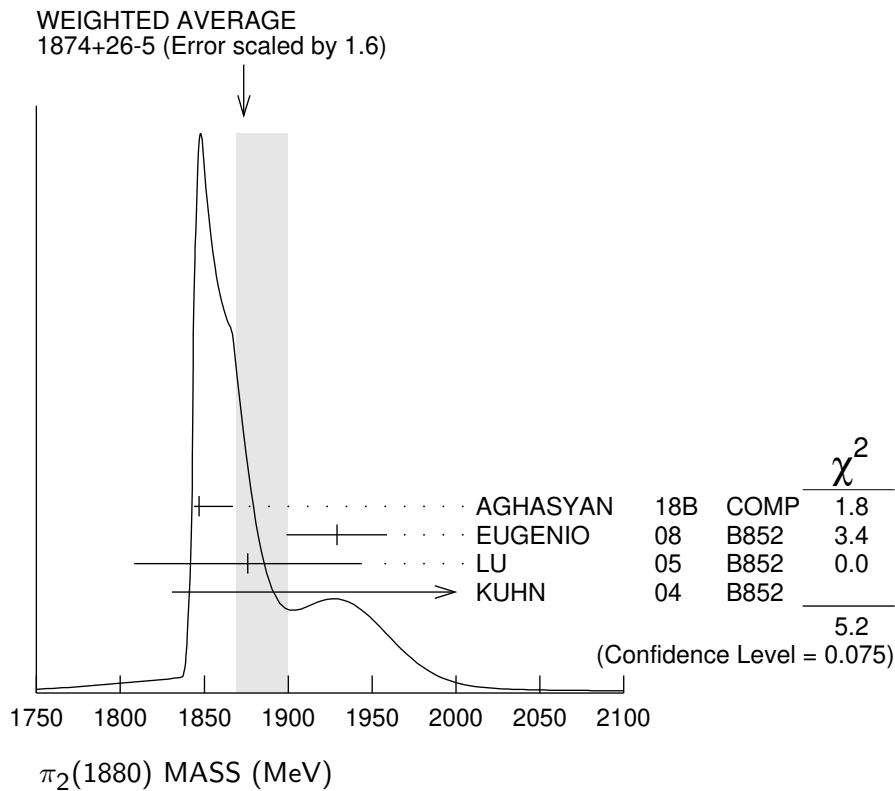
$\pi_2(1880)$

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

$\pi_2(1880)$ 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 ± 17 ± 62 145k LU 05 B852 − 18 π[−] p → ω π[−] π⁰ p
 306 ± 132 ± 121 69k KUHN 04 B852 − 18 π[−] p → η π⁺ π[−] π[−] 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.

π₂(1880) DECAY MODES

Mode	Fraction (Γ _{<i>i</i>} /Γ)
Γ ₁ ηηπ [−]	seen
Γ ₂ a ₀ (980)η	seen
Γ ₃ a ₂ (1320)η	seen
Γ ₄ f ₀ (1500)π	seen
Γ ₅ f ₁ (1285)π	seen
Γ ₆ ω π [−] π ⁰	seen

Γ(a₂(1320)η)/Γ(f₁(1285)π) Γ₃/Γ₅

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 π[−] p → η π⁺ π[−] π[−] p

Γ(f₀(1500)π)/Γ(a₀(980)η) Γ₄/Γ₂

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.

π₂(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>	