NODE=M185

$\pi_2(1880)$

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

$\pi_2(1880)$ MASS

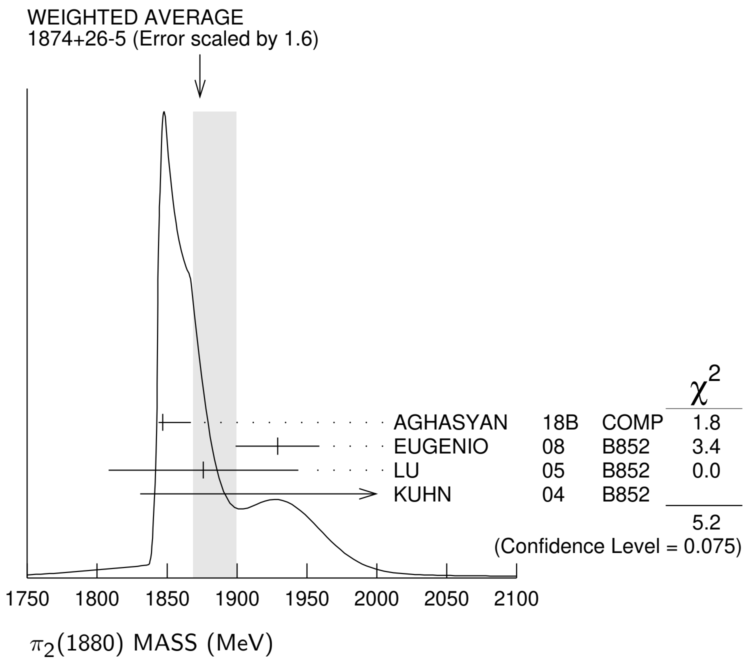
NODE=M185M

NODE=M185M

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 ± 20		ANISOVICH	01B	SPEC	0	0.6–1.94 $\bar{p}p \rightarrow \eta\eta\pi^0\pi^0$

[1] Statistical error negligible.

NODE=M185M;LINKAGE=A



$\pi_2(1880)$ WIDTH

NODE=M185W

NODE=M185W

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 $\bar{p}p \rightarrow \eta\eta\pi^0\pi^0$

[2] Statistical error negligible.

NODE=M185W;LINKAGE=A

$\pi_2(1880)$ DECAY MODES

NODE=M185215;NODE=M185

	Mode	Fraction (Γ_i/Γ)	
Γ_1	$\eta\eta\pi^-$	seen	DESIG=1;OUR EVAL;→ UNCHECKED ←
Γ_2	$a_0(980)\eta$	seen	DESIG=2;OUR EVAL;→ UNCHECKED ←
Γ_3	$a_2(1320)\eta$	seen	DESIG=3;OUR EVAL;→ UNCHECKED ←
Γ_4	$f_0(1500)\pi$	seen	DESIG=4;OUR EVAL;→ UNCHECKED ←
Γ_5	$f_1(1285)\pi$	seen	DESIG=5;OUR EVAL;→ UNCHECKED ←
Γ_6	$\omega\pi^-\pi^0$	seen	DESIG=6;OUR EVAL;→ UNCHECKED ←

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

NODE=M185R01
NODE=M185R01

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 $\pi^- p \to \eta\pi^+\pi^-\pi^- p$

$\Gamma\big(f_0(1500)\pi\big)/\Gamma\big(a_0(980)\eta\big)$ Γ_4/Γ_2

NODE=M185R02
NODE=M185R02

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 $\overline{p}p \to \eta\eta\pi^0\pi^0$

[3] Systematic errors not estimated.

NODE=M185R02;LINKAGE=NS

$\pi_2(1880)$ REFERENCES

NODE=M185

AGHASYAN	18B	PR D98 092003	M. Aghasyan *et al.*	(COMPASS Collab.)	REFID=59471
EUGENIO	08	PL B660 466	P. Eugenio *et al.*	(BNL E852 Collab.)	REFID=52160
LU	05	PRL 94 032002	M. Lu *et al.*	(BNL E852 Collab.)	REFID=50459
KUHN	04	PL B595 109	J. Kuhn *et al.*	(BNL E852 Collab.)	REFID=49773
ANISOVICH	01B	PL B500 222	A.V. Anisovich *et al.*		REFID=48318