

$f_2(1910)$

$$I^G(J^{PC}) = 0^+(2^{++})$$

OMITTED FROM SUMMARY TABLE

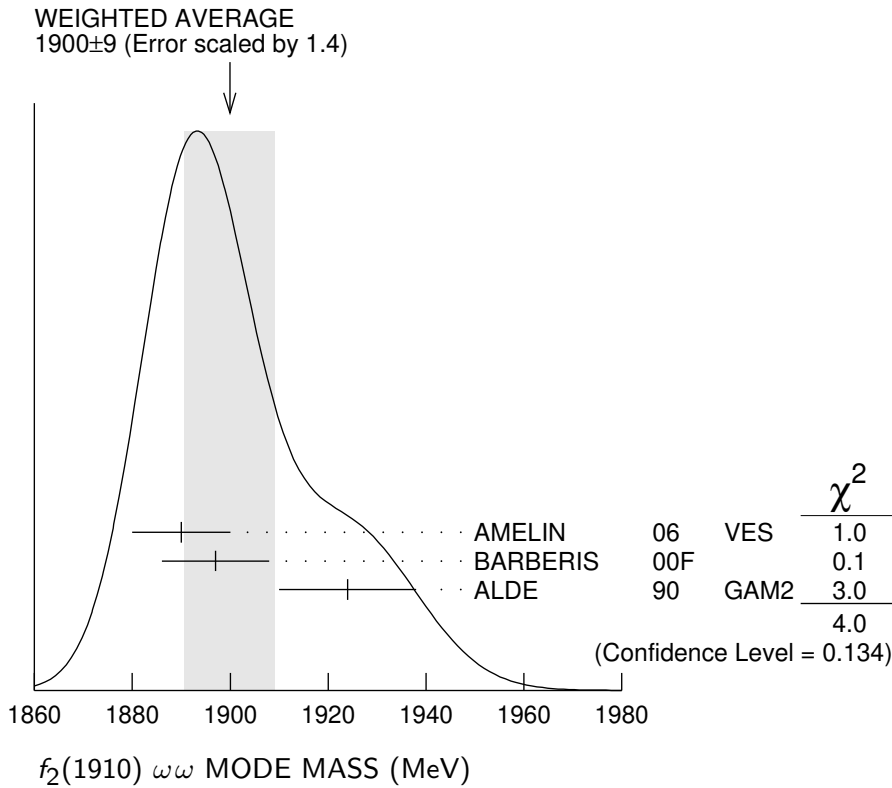
We list here three different peaks with close masses and widths seen in the mass distributions of $\omega\omega$, $\eta\eta'$, and K^+K^- final states. ALDE 91B argues that they are of different nature.

$f_2(1910)$ MASS

$f_2(1910)$ $\omega\omega$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1900 ± 9 OUR AVERAGE	Error includes scale factor of 1.4. See the ideogram below.		
1890 ± 10	¹ AMELIN	06	VES $36 \pi^- p \rightarrow \omega\omega n$
1897 ± 11	BARBERIS	00F	450 $pp \rightarrow p_f \omega\omega p_s$
1924 ± 14	ALDE	90	GAM2 $38 \pi^- p \rightarrow \omega\omega n$

¹Supersedes BELADIDZE 92B.



$f_2(1910)$ $\eta\eta'$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1934 ± 16	¹ BARBERIS	00A	450 $pp \rightarrow p_f \eta\eta' p_s$
1934 ± 20	² ANISOVICH	00J	SPEC
1911 ± 10	ALDE	91B	GAM2 $38 \pi^- p \rightarrow \eta\eta' n$

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

¹ Also compatible with $J^{PC} = 1^{-+}$.

² Combined fit with $\eta\eta$, $\pi\pi$, and $\eta\pi\pi$.

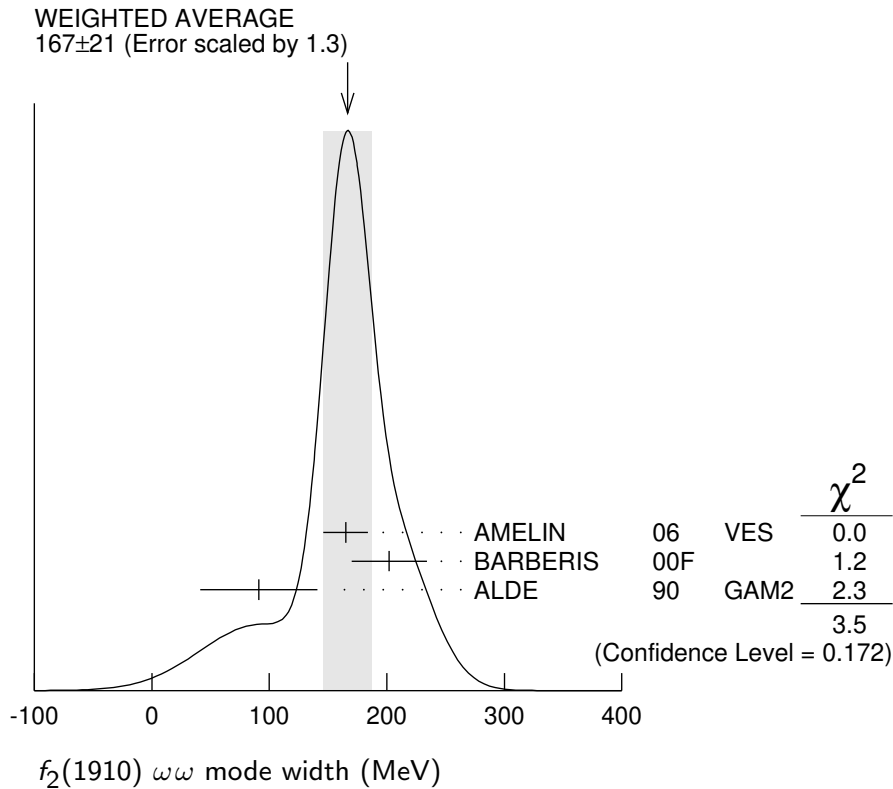
$f_2(1910) K^+ K^-$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
• • • We do not use the following data for averages, fits, limits, etc. • • •			
1941 ± 18	¹ AMSLER	06	CBAR 1.64 $\bar{p}p \rightarrow K^+ K^- \pi^0$
¹ Tentative, could be $f_2(1950)$.			

$f_2(1910)$ WIDTH

$f_2(1910) \omega\omega$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
167 ± 21 OUR AVERAGE	Error includes scale factor of 1.3. See the ideogram below.		
165 ± 19	¹ AMELIN	06	VES 36 $\pi^- p \rightarrow \omega\omega n$
202 ± 32	BARBERIS	00F	450 $pp \rightarrow p_f \omega p_S$
91 ± 50	ALDE	90	GAM2 38 $\pi^- p \rightarrow \omega\omega n$
¹ Supersedes BELADIDZE 92B.			



$f_2(1910)$ $\eta\eta'$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
141 ± 41	¹ BARBERIS	00A	450 $p p \rightarrow p_f \eta \eta' p_S$
271 ± 25	² ANISOVICH	00J	SPEC
90 ± 35	ALDE	91B	GAM2 38 $\pi^- p \rightarrow \eta \eta' n$

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

¹ Also compatible with $J^{PC}=1^-+$.

² Combined fit with $\eta\eta$, $\pi\pi$, and $\eta\pi\pi$.

 $f_2(1910)$ $K^+ K^-$ MODE

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
120 ± 40	AMSLER	06	CBAR 1.64 $\bar{p} p \rightarrow K^+ K^- \pi^0$

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

 $f_2(1910)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $\pi^0 \pi^0$	
Γ_2 $K^+ K^-$	seen
Γ_3 $K_S^0 K_S^0$	
Γ_4 $\eta\eta$	seen
Γ_5 $\omega\omega$	seen
Γ_6 $\eta\eta'$	seen
Γ_7 $\eta'\eta'$	
Γ_8 $\rho\rho$	seen
Γ_9 $a_2(1320)\pi$	seen
Γ_{10} $f_2(1270)\eta$	seen

 $f_2(1910)$ BRANCHING RATIOS

$\Gamma(K^+ K^-)/\Gamma_{\text{total}}$	Γ_2/Γ		
VALUE	DOCUMENT ID	TECN	COMMENT
seen	¹ AMSLER	06	CBAR 1.64 $\bar{p} p \rightarrow K^+ K^- \pi^0$

¹ Tentative, could be $f_2(1950)$.

$\Gamma(\pi^0 \pi^0)/\Gamma(\eta\eta')$	Γ_1/Γ_6		
VALUE	DOCUMENT ID	TECN	COMMENT
<0.1	ALDE	89	GAM2 38 $\pi^- p \rightarrow \eta \eta' n$

$\Gamma(K_S^0 K_S^0)/\Gamma(\eta\eta')$	Γ_3/Γ_6			
VALUE	CL%	DOCUMENT ID	TECN	COMMENT
<0.066	90	BALOSHIN	86	SPEC 40 $\pi p \rightarrow K_S^0 K_S^0 n$

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

$\Gamma(\eta\eta)/\Gamma(\eta\eta')$ Γ_4/Γ_6

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

<0.05	90	ALDE	91B	GAM2 38 $\pi^- p \rightarrow \eta\eta' n$
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 $\Gamma(\omega\omega)/\Gamma(\eta\eta')$ Γ_5/Γ_6

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

2.6 ± 0.6	BARBERIS	00F	450 $pp \rightarrow p_f \omega \omega p_5$
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 $\Gamma(\eta'\eta')/\Gamma_{\text{total}}$ Γ_7/Γ

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

probably not seen	BARBERIS	00A	450 $pp \rightarrow p_f \eta' \eta' p_5$
possibly seen	BELADIDZE	92D	VES 37 $\pi^- p \rightarrow \eta' \eta' n$

 $\Gamma(\rho\rho)/\Gamma(\omega\omega)$ Γ_8/Γ_5

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

2.6 ± 0.4	BARBERIS	00F	450 $pp \rightarrow p_f \omega \omega p_5$
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 $\Gamma(f_2(1270)\eta)/\Gamma(a_2(1320)\pi)$ Γ_{10}/Γ_9

VALUE	DOCUMENT ID	TECN	COMMENT
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0.09 ± 0.05	¹ ANISOVICH	11	SPEC 0.9–1.94 $p\bar{p}$
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¹ Reanalysis of ADOMEIT 96 and ANISOVICH 00E.

 $f_2(1910)$ REFERENCES

ANISOVICH	11	EPJ C71 1511	A.V. Anisovich <i>et al.</i>	(LOQM, RAL, PNPI)
AMELIN	06	PAN 69 690	D.V. Amelin <i>et al.</i>	(VES Collab.)
		Translated from YAF 69 715.		
AMSLER	06	PL B639 165	C. Amsler <i>et al.</i>	(Crystal Barrel Collab.)
ANISOVICH	00E	PL B477 19	A.V. Anisovich <i>et al.</i>	
ANISOVICH	00J	PL B491 47	A.V. Anisovich <i>et al.</i>	(RAL, LOQM, PNPI+)
BARBERIS	00A	PL B471 429	D. Barberis <i>et al.</i>	(WA 102 Collab.)
BARBERIS	00F	PL B484 198	D. Barberis <i>et al.</i>	(WA 102 Collab.)
ADOMEIT	96	ZPHY C71 227	J. Adomeit <i>et al.</i>	(Crystal Barrel Collab.)
BELADIDZE	92B	ZPHY C54 367	G.M. Beladidze <i>et al.</i>	(VES Collab.)
BELADIDZE	92D	ZPHY C57 13	G.M. Beladidze <i>et al.</i>	(VES Collab.)
ALDE	91B	SJNP 54 455	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP+)
		Translated from YAF 54 751.		
Also		PL B276 375	D.M. Alde <i>et al.</i>	(BELG, SERP, KEK, LANL+)
ALDE	90	PL B241 600	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP+)
ALDE	89	PL B216 447	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP)
Also		SJNP 48 1035	D.M. Alde <i>et al.</i>	(BELG, SERP, LANL, LAPP)
		Translated from YAF 48 1724.		
BALOSHIN	86	SJNP 43 959	O.N. Baloshin <i>et al.</i>	(ITEP)
		Translated from YAF 43 1487.		