

$f_2(1910)$

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

OMITTED FROM SUMMARY TABLE

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

$f_2(1910)$ MASS

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

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1915 ± 7 OUR AVERAGE	Error includes scale factor of 1.2.		
1934 ± 20	ANISOVICH	00J SPEC	
1897 ± 11	BARBERIS	00F	450 $pp \rightarrow p_f \omega \omega p_S$
1920 ± 10	BELADIDZE	92B VES	36 $\pi^- p \rightarrow \omega \omega n$
1924 ± 14	ALDE	90 GAM2	38 $\pi^- p \rightarrow \omega \omega n$

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

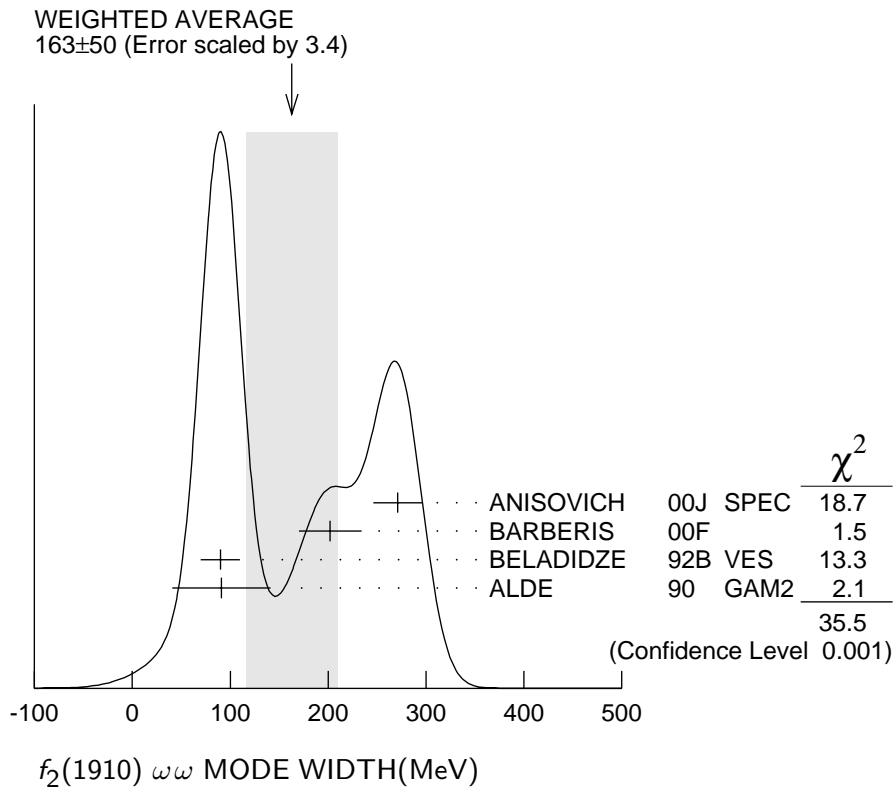
<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
1934 ± 16	¹ BARBERIS	00A	450 $pp \rightarrow p_f \eta \eta' p_S$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
1911 ± 10	ALDE	91B GAM2	38 $\pi^- p \rightarrow \eta \eta' n$

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

$f_2(1910)$ WIDTH

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

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
163 ± 50 OUR AVERAGE	Error includes scale factor of 3.4. See the ideogram below.		
271 ± 25	ANISOVICH	00J SPEC	
202 ± 32	BARBERIS	00F	450 $pp \rightarrow p_f \omega \omega p_S$
90 ± 20	BELADIDZE	92B VES	36 $\pi^- p \rightarrow \omega \omega n$
91 ± 50	ALDE	90 GAM2	38 $\pi^- p \rightarrow \omega \omega n$



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

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
141 ± 41	² BARBERIS	00A	450 $p p \rightarrow p_f \eta \eta' p_s$
• • • We do not use the following data for averages, fits, limits, etc. • • •			
90 ± 35	ALDE	91B	GAM2 38 $\pi^- p \rightarrow \eta \eta' n$
² Also compatible with $J^{PC} = 1^- +$.			

$f_2(1910)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)
Γ_1 $\pi^0 \pi^0$	
Γ_2 $K_S^0 K_S^0$	
Γ_3 $\eta\eta$	seen
Γ_4 $\omega\omega$	seen
Γ_5 $\eta\eta'$	seen
Γ_6 $\eta'\eta'$	
Γ_7 $\rho\rho$	seen

$f_2(1910)$ BRANCHING RATIOS

$\Gamma(\pi^0 \pi^0)/\Gamma(\eta\eta')$	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ_5
• • • We do not use the following data for averages, fits, limits, etc. • • •				
<0.1	ALDE	89	GAM2 38 $\pi^- p \rightarrow \eta \eta' n$	

$\Gamma(\eta\eta)/\Gamma(\eta\eta')$ Γ_3/Γ_5

VALUE CL% DOCUMENT ID TECN COMMENT

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

<0.05 90 ALDE 91B GAM2 38 $\pi^- p \rightarrow \eta\eta' n$

$\Gamma(K_S^0 K_S^0)/\Gamma(\eta\eta')$ Γ_2/Γ_5

VALUE CL% DOCUMENT ID TECN COMMENT

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

<0.066 90 BALOSHIN 86 SPEC 40 $\pi p \rightarrow K_S^0 K_S^0 n$

$\Gamma(\eta'\eta')/\Gamma_{\text{total}}$ Γ_6/Γ

VALUE DOCUMENT ID TECN COMMENT

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

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

$\Gamma(\rho\rho)/\Gamma(\omega\omega)$ Γ_7/Γ_4

VALUE DOCUMENT ID COMMENT

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

2.6 ± 0.4 BARBERIS 00F 450 $pp \rightarrow p_f \omega\omega p_S$

$\Gamma(\omega\omega)/\Gamma(\eta\eta')$ Γ_4/Γ_5

VALUE DOCUMENT ID COMMENT

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

2.6 ± 0.6 BARBERIS 00F 450 $pp \rightarrow p_f \omega\omega p_S$

$f_2(1910)$ REFERENCES

ANISOVICH	00J	PL B491 47	A.V. Anisovich <i>et al.</i>	
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.)
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	92	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	88E	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.		

OTHER RELATED PAPERS

LEE	94	PL B323 227	J.H. Lee <i>et al.</i>	(BNL, IND, KYUN, MASD+)
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