$f_2(1910)$

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

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

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

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

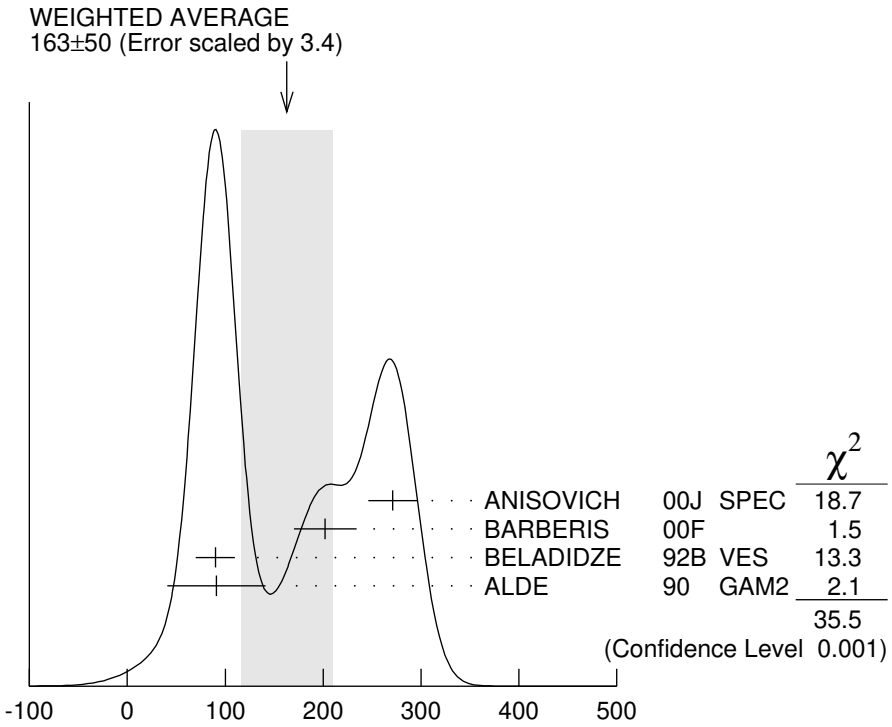
VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
1934±16	[1] BARBERIS	00A		450 $pp \to p_f \eta\eta' p_s$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1911±10	ALDE	91B	GAM2	38 $\pi^- p \to \eta\eta' n$

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

$f_2(1910)$ WIDTH

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

VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
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 $pp \to p_f \omega\omega p_s$
90±20	BELADIDZE	92B	VES	36 $\pi^- p \to \omega\omega n$
91±50	ALDE	90	GAM2	38 $\pi^- p \to \omega\omega n$



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

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

VALUE (MeV)	DOCUMENT ID		TECN	COMMENT
141 ± 41	[2] BARBERIS	00A		450 $pp \rightarrow p_f \eta\eta' p_s$

• • • 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	$K^0_S K^0_S$	
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

$\Gamma(\pi^0\pi^0)/\Gamma(\eta\eta')$ Γ_1/Γ_5

VALUE	DOCUMENT ID		TECN	COMMENT

• • • 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 $\pi^- p \rightarrow \eta\eta' n$

$\Gamma(K^0_S K^0_S)/\Gamma(\eta\eta')$ 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	$40\pi p \rightarrow K^0_S K^0_S n$

$\Gamma(\eta'\eta')/\Gamma_{\text{total}}$ 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 *et al.*	
BARBERIS	00A	PL B471 429	D. Barberis *et al.*	(WA 102 Collab.)
BARBERIS	00F	PL B484 198	D. Barberis *et al.*	(WA 102 Collab.)
BELADIDZE	92B	ZPHY C54 367	G.M. Beladidze *et al.*	(VES Collab.)
BELADIDZE	92D	ZPHY C57 13	G.M. Beladidze *et al.*	(VES Collab.)
ALDE	91B	SJNP 54 455	D.M. Alde *et al.*	(SERP, BELG, LANL, LAPP+)
		Translated from YAF 54 751.		
Also		PL B276 375	D.M. Alde *et al.*	(BELG, SERP, KEK, LANL+)
ALDE	90	PL B241 600	D.M. Alde *et al.*	(SERP, BELG, LANL, LAPP+)
ALDE	89	PL B216 447	D.M. Alde *et al.*	(SERP, BELG, LANL, LAPP)
Also		SJNP 48 1035	D.M. Alde *et al.*	(BELG, SERP, LANL, LAPP)
		Translated from YAF 48 1724.		
BALOSHIN	86	SJNP 43 959	O.N. Baloshin *et al.*	(ITEP)
		Translated from YAF 43 1487.		

OTHER RELATED PAPERS

ANISOVICH	05	JETPL 80 715	V.V. Anisovich
		Translated from ZETFP 80 845.	
ANISOVICH	05A	JETPL 81 417	V.V. Anisovich, A.V. Sarantsev
		Translated from ZETFP 81 531.	
ANISOVICH	05C	IJMP A20 6327	V.V. Anisovich, M.A. Matveev, A.V. Sarantsev
LEE	94	PL B323 227	J.H. Lee *et al.* (BNL, IND, KYUN, MASD+)