$f_2(1910)$

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

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

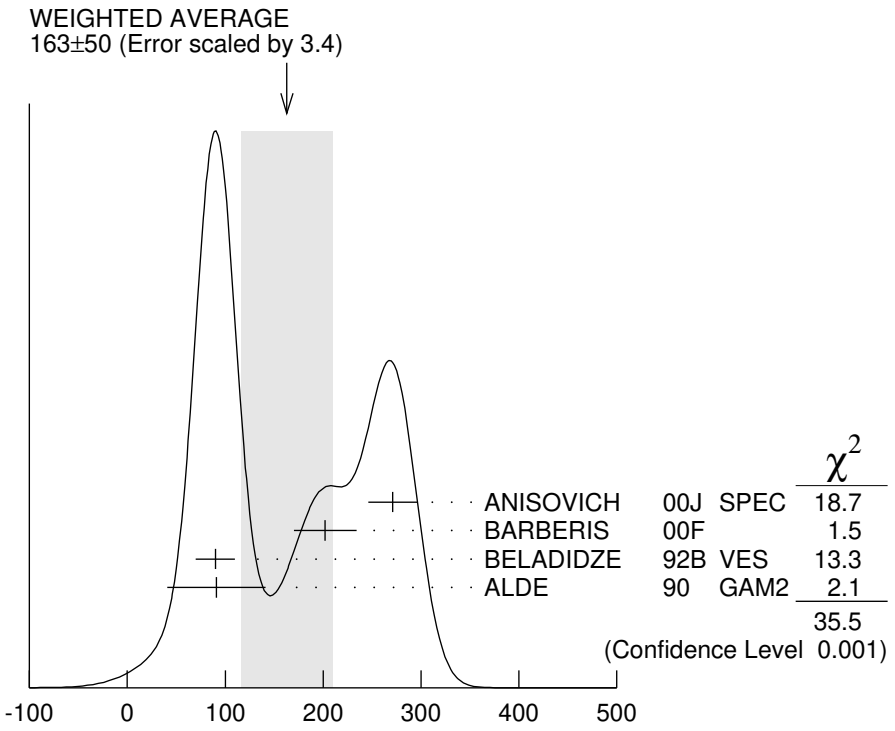
VALUE (MeV)	*DOCUMENT ID*		*TECN*	*COMMENT*
1934±16	[1] BARBERIS	00A		450 $pp \to p_f \eta\eta' p_s$
• • • We do not use the following data for averages, fits, limits, etc. • • •				
1911±10	ALDE	91B	GAM2	38 $\pi^- p \to \eta\eta' n$

[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 $pp \to p_f \eta\eta' p_s$

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

90±35	ALDE	91B	GAM2	38 $\pi^- p \to \eta\eta' n$

[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$\pi^- p \to \eta\eta' n$

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

$\Gamma(\eta'\eta')/\Gamma_{total}$ 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	92	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	88E	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

LEE	94	PL B323 227	J.H. Lee *et al.*	(BNL, IND, KYUN, MASD+)