

$f_2(1640)$

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

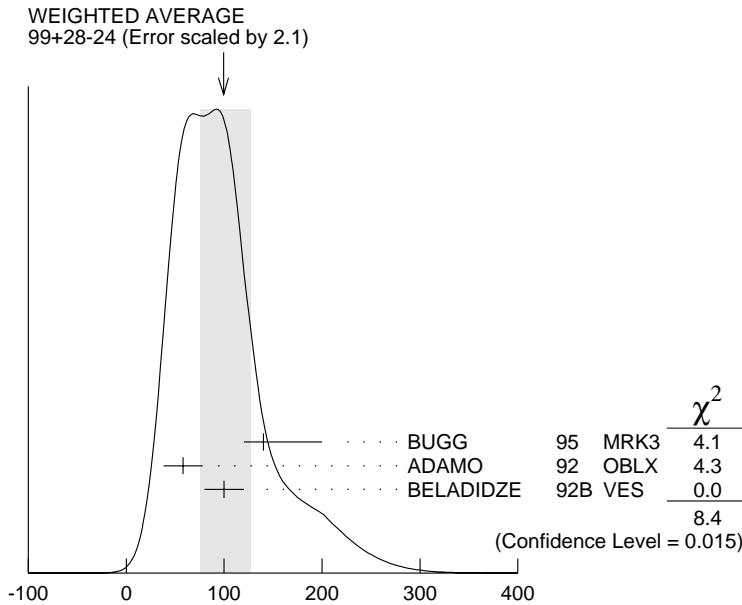
OMITTED FROM SUMMARY TABLE

$f_2(1640)$ MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1638 ± 6 OUR AVERAGE	Error includes scale factor of 1.2.		
1620 ± 16	BUGG	95 MRK3	$J/\psi \rightarrow \gamma \pi^+ \pi^- \pi^+ \pi^-$
1647 ± 7	ADAMO	92 OBLX	$\bar{n} p \rightarrow 3\pi^+ 2\pi^-$
1590 ± 30	BELADIDZE	92B VES	$36 \pi^- p \rightarrow \omega \omega n$
1635 ± 7	ALDE	90 GAM2	$38 \pi^- p \rightarrow \omega \omega n$

$f_2(1640)$ WIDTH

VALUE (MeV)	CL%	DOCUMENT ID	TECN	COMMENT
99⁺²⁸₋₂₄ OUR AVERAGE		Error includes scale factor of 2.1. See the ideogram below.		
140 ⁺⁶⁰ ₋₂₀		BUGG	95 MRK3	$J/\psi \rightarrow \gamma \pi^+ \pi^- \pi^+ \pi^-$
58 ± 20		ADAMO	92 OBLX	$\bar{n} p \rightarrow 3\pi^+ 2\pi^-$
100 ± 20		BELADIDZE	92B VES	$36 \pi^- p \rightarrow \omega \omega n$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
< 70	90	ALDE	90 GAM2	$38 \pi^- p \rightarrow \omega \omega n$



$f_2(1640)$ width (MeV)

$f_2(1640)$ DECAY MODES

Mode		Fraction (Γ_i/Γ)
Γ_1	$\omega\omega$	seen
Γ_2	4π	seen

$f_2(1640)$ REFERENCES

BUGG	95	PL B353 378	+Scott, Zoli+	(LOQM, PNPI, WASH) JP
ADAMO	92	PL B287 368	+Agnello, Balestra+	(OBELIX Collab.)
BELADIDZE	92B	ZPHY C54 367	+Bityukov, Borisov+	(VES Collab.)
ALDE	90	PL B241 600	+Binon+	(SERP, BELG, LANL, LAPP, PISA, KEK)