

$f_2(1640)$

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

OMITTED FROM SUMMARY TABLE

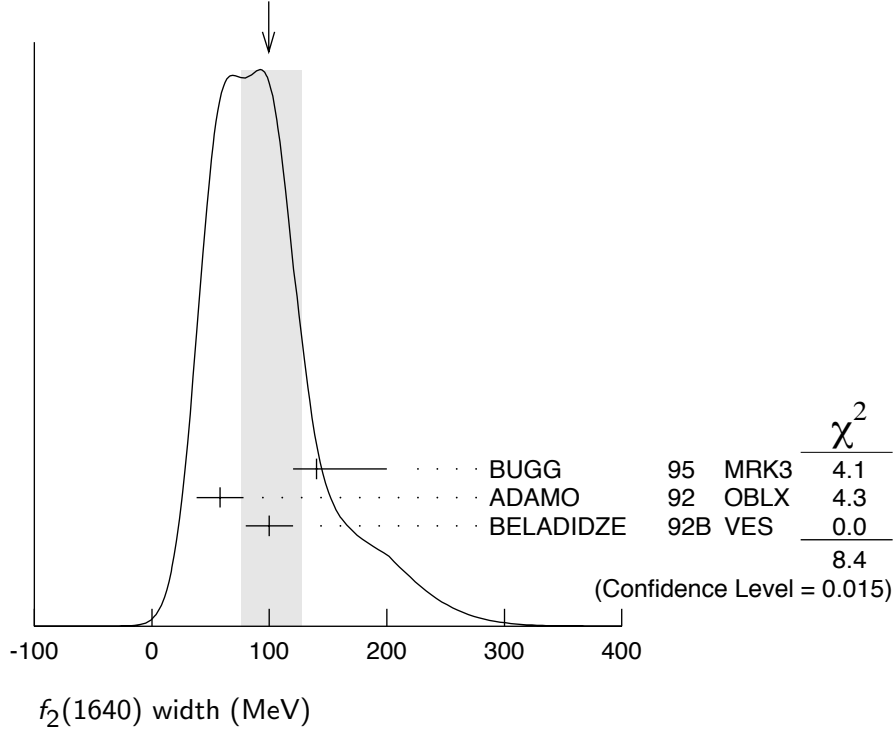
 $f_2(1640)$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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	$\bar{p} p \rightarrow 3\pi^+ 2\pi^-$
1590 ± 30	BELADIDZE	92B VES	$36 \pi^- p \rightarrow \omega \omega n$
1635 ± 7	ALDE	90 GAM2	$38 \pi^- p \rightarrow \omega \omega n$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
1643 ± 7	¹ ALDE	89B GAM2	$38 \pi^- p \rightarrow \omega \omega n$
¹ Superseded by ALDE 90.			

 $f_2(1640)$ WIDTH

<u>VALUE (MeV)</u>	<u>CL%</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
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	$\bar{p} p \rightarrow 3\pi^+ 2\pi^-$
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	$38 \pi^- p \rightarrow \omega \omega n$

WEIGHTED AVERAGE
99+28-24 (Error scaled by 2.1)



$f_2(1640)$ 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	D.V. Bugg <i>et al.</i>	(LOQM, PNPI, WASH) JP
ADAMO	92	PL B287 368	A. Adamo <i>et al.</i>	(OBELIX Collab.)
BELADIDZE	92B	ZPHY C54 367	G.M. Beladidze <i>et al.</i>	(VES Collab.)
ALDE	90	PL B241 600	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP+)
ALDE	89B	PL B216 451	D.M. Alde <i>et al.</i>	(SERP, BELG, LANL, LAPP+) IGJPC

OTHER RELATED PAPERS

ANISOVICH	05	JETPL 80 715	V.V. Anisovich
		Translated from ZETFP 80 845.	
PROKOSHKIN	99	PAN 62 356	Yu.D. Prokoshkin
		Translated from YAF 62 396.	