

**$f_2(1640)$**

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

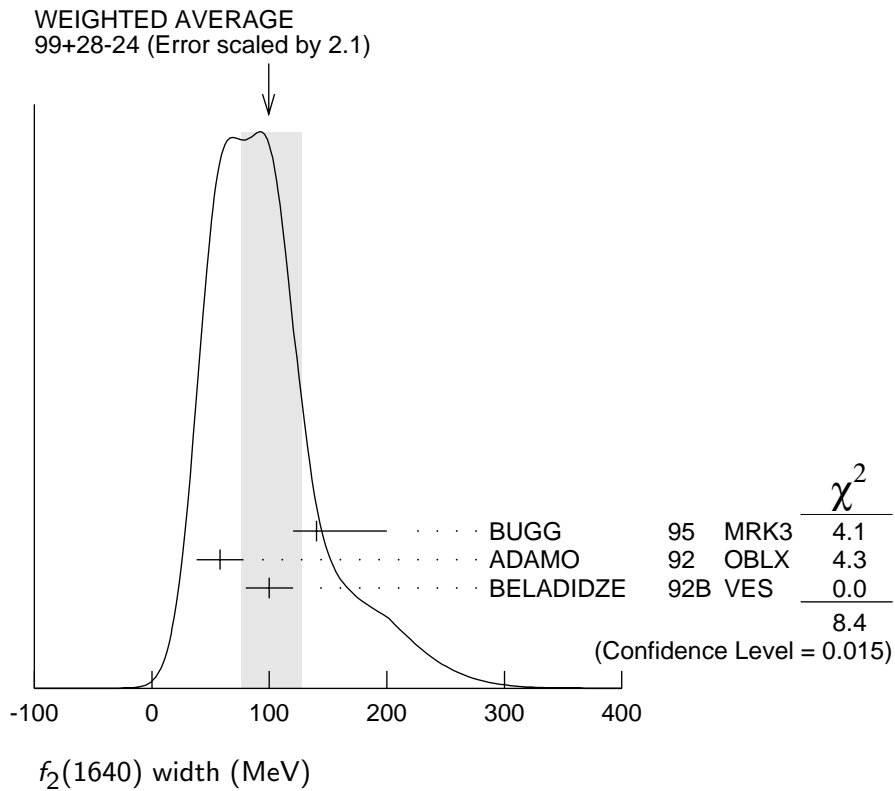
OMITTED FROM SUMMARY TABLE

**$f_2(1640)$  MASS**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b><math>1638 \pm 6</math> OUR AVERAGE</b>	Error includes scale factor of 1.2.		
$1620 \pm 16$	BUGG	95 MRK3	$J/\psi \rightarrow \gamma \pi^+ \pi^- \pi^+ \pi^-$
$1647 \pm 7$	ADAMO	92 OBLX	$\bar{\pi} p \rightarrow 3\pi^+ 2\pi^-$
$1590 \pm 30$	BELADIDZE	92B VES	$36 \pi^- p \rightarrow \omega \omega n$
$1635 \pm 7$	ALDE	90 GAM2	$38 \pi^- p \rightarrow \omega \omega n$
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
$1643 \pm 7$	<sup>1</sup> ALDE	89B GAM2	$38 \pi^- p \rightarrow \omega \omega n$
<sup>1</sup> Superseded by ALDE 90.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>
<b><math>99^{+28}_{-24}</math> OUR AVERAGE</b>	Error includes scale factor of 2.1. See the ideogram below.			
$140^{+60}_{-20}$		BUGG	95 MRK3	$J/\psi \rightarrow \gamma \pi^+ \pi^- \pi^+ \pi^-$
$58 \pm 20$		ADAMO	92 OBLX	$\bar{\pi} p \rightarrow 3\pi^+ 2\pi^-$
$100 \pm 20$		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	$38 \pi^- p \rightarrow \omega \omega n$



### $f_2(1640)$ DECAY MODES

Mode	Fraction ( $\Gamma_i/\Gamma$ )
$\Gamma_1$ $\omega\omega$	seen
$\Gamma_2$ $4\pi$	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

PROKOSHKIN	99	PAN 62 356	Yu.D. Prokoshkin
Translated from YAF 62 396.			