

**$f_2(1640)$**  $I^G(J^{PC}) = 0^+(2^{++})$ 

OMITTED FROM SUMMARY TABLE

 **$f_2(1640)$  MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>1639 \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 $\bar{n}p \rightarrow 3\pi^+ 2\pi^-$
$1635 \pm 7$	ALDE	90	GAM2 $38 \pi^- p \rightarrow \omega \omega n$
<b>• • • We do not use the following data for averages, fits, limits, etc. • • •</b>			
$1640 \pm 5$	AMSLER	06	CBAR $0.9 \bar{p}p \rightarrow K^+ K^- \pi^0$
$1659 \pm 6$	VLADIMIRSK...06	SPEC	$40 \pi^- p \rightarrow K_S^0 K_S^0 n$
$1643 \pm 7$	<sup>1</sup> ALDE	89B	GAM2 $38 \pi^- p \rightarrow \omega \omega n$

<sup>1</sup> Superseded by ALDE 90. **$f_2(1640)$  WIDTH**

VALUE (MeV)	CL%	DOCUMENT ID	TECN	COMMENT
<b><math>99^{+60}_{-40}</math> OUR AVERAGE</b>	Error includes scale factor of 2.9.			
$140^{+60}_{-20}$		BUGG	95	MRK3 $J/\psi \rightarrow \gamma \pi^+ \pi^- \pi^+ \pi^-$
$58 \pm 20$		ADAMO	92	OBLX $\bar{n}p \rightarrow 3\pi^+ 2\pi^-$
<b>• • • We do not use the following data for averages, fits, limits, etc. • • •</b>				
$44 \pm 9$		AMSLER	06	CBAR $0.9 \bar{p}p \rightarrow K^+ K^- \pi^0$
$152 \pm 18$		VLADIMIRSK...06	SPEC	$40 \pi^- p \rightarrow K_S^0 K_S^0 n$
$< 70$	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
$\Gamma_3 K\bar{K}$	seen

 **$f_2(1640)$  BRANCHING RATIOS**

$\Gamma(K\bar{K})/\Gamma_{\text{total}}$	DOCUMENT ID	TECN	COMMENT	$\Gamma_3/\Gamma$
<b>seen</b>	AMSLER	06	CBAR $0.9 \bar{p}p \rightarrow K^+ K^- \pi^0$	

## **$f_2(1640)$ REFERENCES**

AMSLER	06	PL B639 165	C. Amsler <i>et al.</i>	(CBAR Collab.)
VLADIMIRSK...	06	PAN 69 493	V.V. Vladimirskey <i>et al.</i>	(ITEP, Moscow)
		Translated from YAF 69 515.		
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.)
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

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## **OTHER RELATED PAPERS**

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ABLIKIM	06H	PR D73 112007	M. Ablikim <i>et al.</i>	(BES Collab.)
ANISOVICH	05	JETPL 80 715	V.V. Anisovich	
PROKOSHKIN	99	Translated from ZETFP 80 845. PAN 62 356 Translated from YAF 62 396.	Yu.D. Prokoshkin	