

**$f_2(1430)$** 

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

## OMITTED FROM SUMMARY TABLE

This entry lists nearby peaks observed in the  $D$  wave of the  $K\bar{K}$  and  $\pi^+\pi^-$  systems. Seen by LEES 21A with  $4.4\sigma$  significance. Needs confirmation.

 **$f_2(1430)$  MASS**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
<b><math>\approx 1430</math> OUR ESTIMATE</b>			
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
$1440 \pm 11 \pm 3$	LEES	21A	BABR $\gamma\gamma \rightarrow \eta_c(1S) \rightarrow \eta' \pi^+ \pi^-$
$1453 \pm 4$	<sup>1</sup> VLADIMIRSK...01	SPEC	$40 \pi^- p \rightarrow K_S^0 K_S^0 n$
$1421 \pm 5$	AUGUSTIN	87	DM2 $J/\psi \rightarrow \gamma \pi^+ \pi^-$
$1480 \pm 50$	AKESSON	86	SPEC $pp \rightarrow pp \pi^+ \pi^-$
$1436^{+26}_{-16}$	DAUM	84	CNTR $17-18 \pi^- p \rightarrow K^+ K^- n$
$1412 \pm 3$	DAUM	84	CNTR $63 \pi^- p \rightarrow K_S^0 K_S^0 n, K^+ K^- n$
$1439^{+5}_{-6}$	<sup>2</sup> BEUSCH	67	OSPK $5,7,12 \pi^- p \rightarrow K_S^0 K_S^0 n$

<sup>1</sup>  $J^{PC} = 0^{++}$  or  $2^{++}$ .<sup>2</sup> Not seen by WETZEL 76. **$f_2(1430)$  WIDTH**

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
$46 \pm 15 \pm 5$	LEES	21A	BABR $\gamma\gamma \rightarrow \eta_c(1S) \rightarrow \eta' \pi^+ \pi^-$
$13 \pm 5$	<sup>3</sup> VLADIMIRSK...01	SPEC	$40 \pi^- p \rightarrow K_S^0 K_S^0 n$
$30 \pm 9$	AUGUSTIN	87	DM2 $J/\psi \rightarrow \gamma \pi^+ \pi^-$
$150 \pm 50$	AKESSON	86	SPEC $pp \rightarrow pp \pi^+ \pi^-$
$81^{+56}_{-29}$	DAUM	84	CNTR $17-18 \pi^- p \rightarrow K^+ K^- n$
$14 \pm 6$	DAUM	84	CNTR $63 \pi^- p \rightarrow K_S^0 K_S^0 n, K^+ K^- n$
$43^{+17}_{-18}$	<sup>4</sup> BEUSCH	67	OSPK $5,7,12 \pi^- p \rightarrow K_S^0 K_S^0 n$

<sup>3</sup>  $J^{PC} = 0^{++}$  or  $2^{++}$ .<sup>4</sup> Not seen by WETZEL 76. **$f_2(1430)$  DECAY MODES**

Mode
$\Gamma_1$ $K\bar{K}$
$\Gamma_2$ $\pi\pi$

## $f_2(1430)$ REFERENCES

LEES	21A	PR D104 072002	J.P. Lees <i>et al.</i>	(BABAR Collab.)
VLADIMIRSK...	01	PAN 64 1895	V.V. Vladimisky <i>et al.</i>	
		Translated from YAF 64 1979.		
AUGUSTIN	87	ZPHY C36 369	J.E. Augustin <i>et al.</i>	(LALO, CLER, FRAS+)
AKESSON	86	NP B264 154	T. Akesson <i>et al.</i>	(Axial Field Spec. Collab.)
DAUM	84	ZPHY C23 339	C. Daum <i>et al.</i>	(AMST, CERN, CRAC, MPIM+) JP
WETZEL	76	NP B115 208	W. Wetzel <i>et al.</i>	(ETH, CERN, LOIC)
BEUSCH	67	PL 25B 357	W. Beusch <i>et al.</i>	(ETH, CERN)

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