

**$f_2(1430)$** 

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

## OMITTED FROM SUMMARY TABLE

This entry lists nearby peaks observed in the  $D$  wave of the  $K\bar{K}$  and  $\pi^+\pi^-$  systems. Needs confirmation.

 **$f_2(1430)$  MASS**

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
<b><math>\approx 1430</math> OUR ESTIMATE</b>			
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
$1453 \pm 4$	<sup>2</sup> VLADIMIRSKY01	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>1</sup> BEUSCH	67 OSPK	$5,7,12 \pi^- p \rightarrow$ $K_S^0 K_S^0 n$

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

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
$13 \pm 5$	<sup>4</sup> VLADIMIRSKY01	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>3</sup> BEUSCH	67 OSPK	$5,7,12 \pi^- p \rightarrow$ $K_S^0 K_S^0 n$

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

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

## $f_2(1430)$ REFERENCES

VLADIMIRSKY	01	PAN 64 1895	V.V. Vladmirsky <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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