

$f_2(1430)$

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

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>
≈ 1430 OUR ESTIMATE			
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
1453 ± 4	² VLADIMIRSK...01	SPEC	$40 \pi^- p \rightarrow K_S^0 K_S^0 n$
1421 ± 5	AUGUSTIN 87	DM2	$J/\psi \rightarrow \gamma \pi^+ \pi^-$
1480 ± 50	AKESSON 86	SPEC	$pp \rightarrow pp \pi^+ \pi^-$
1436^{+26}_{-16}	DAUM 84	CNTR	$17-18 \pi^- p \rightarrow$ $K^+ K^- n$
1412 ± 3	DAUM 84	CNTR	$63 \pi^- p \rightarrow K_S^0 K_S^0 n,$ $K^+ K^- n$
1439^{+5}_{-6}	¹ BEUSCH 67	OSPK	$5,7,12 \pi^- p \rightarrow$ $K_S^0 K_S^0 n$

¹ Not seen by WETZEL 76.² $J^{PC} = 0^{++}$ 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 ± 5	⁴ VLADIMIRSK...01	SPEC	$40 \pi^- p \rightarrow K_S^0 K_S^0 n$
30 ± 9	AUGUSTIN 87	DM2	$J/\psi \rightarrow \gamma \pi^+ \pi^-$
150 ± 50	AKESSON 86	SPEC	$pp \rightarrow pp \pi^+ \pi^-$
81^{+56}_{-29}	DAUM 84	CNTR	$17-18 \pi^- p \rightarrow$ $K^+ K^- n$
14 ± 6	DAUM 84	CNTR	$63 \pi^- p \rightarrow K_S^0 K_S^0 n,$ $K^+ K^- n$
43^{+17}_{-18}	³ BEUSCH 67	OSPK	$5,7,12 \pi^- p \rightarrow$ $K_S^0 K_S^0 n$

³ Not seen by WETZEL 76.⁴ $J^{PC} = 0^{++}$ or 2^{++} . **$f_2(1430)$ DECAY MODES**

Mode	
Γ_1	$K\bar{K}$
Γ_2	$\pi\pi$

$f_2(1430)$ REFERENCES

VLADIMIRSK...	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)
