

$f_2(1430)$

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

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

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
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≈ 1430 OUR ESTIMATE

• • • We do not use the following data for averages, fits, limits, etc. • • •

1453 ± 4	¹ 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	² BEUSCH	67	OSPK 5,7,12 $\pi^- p \rightarrow K_S^0 K_S^0 n$

¹ $J^{PC} = 0^{++}$ or 2^{++} .

² Not seen by WETZEL 76.

$f_2(1430)$ WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
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• • • We do not use the following data for averages, fits, limits, etc. • • •

13 ± 5	³ 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	⁴ BEUSCH	67	OSPK 5,7,12 $\pi^- p \rightarrow K_S^0 K_S^0 n$

³ $J^{PC} = 0^{++}$ or 2^{++} .

⁴ Not seen by WETZEL 76.

$f_2(1430)$ 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)
