

$f_2(1430)$

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

NODE=M066

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.

NODE=M066

$f_2(1430)$ MASS

NODE=M066M1

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
≈ 1430 OUR ESTIMATE			
● ● ● 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 ± 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 $17\text{--}18 \pi^- p \rightarrow K^+ K^- n$
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.			

NODE=M066M1
→ UNCHECKED ←

OCCUR=2

NODE=M066M;LINKAGE=AC
NODE=M066M;LINKAGE=C

$f_2(1430)$ WIDTH

NODE=M066W1

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 ± 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 $17\text{--}18 \pi^- p \rightarrow K^+ K^- n$
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.			

NODE=M066W1

OCCUR=2

NODE=M066W;LINKAGE=AC
NODE=M066W;LINKAGE=C

$f_2(1430)$ DECAY MODES

NODE=M066215;NODE=M066

Mode	
Γ_1	$K\bar{K}$
Γ_2	$\pi\pi$

DESIG=1
DESIG=2

$f_2(1430)$ REFERENCES

NODE=M066

LEES	21A	PR D104 072002	J.P. Lees <i>et al.</i>	(BABAR Collab.)
VLADIMIRSK...	01	PAN 64 1895	V.V. Vladimirovsky <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. Wetzels <i>et al.</i>	(ETH, CERN, LOIC)
BEUSCH	67	PL 25B 357	W. Beusch <i>et al.</i>	(ETH, CERN)

REFID=61442
REFID=48571

REFID=40268
REFID=21123
REFID=21372
REFID=20362
REFID=20320