

$K_2(2250)$ $I(J^P) = \frac{1}{2}(2^-)$

OMITTED FROM SUMMARY TABLE

This entry contains various peaks in strange meson systems reported in the 2150–2260 MeV region, as well as enhancements seen in the antihyperon-nucleon system, either in the mass spectra or in the $J^P = 2^-$ wave.

 $K_2(2250)$ MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
2247 ± 17 OUR AVERAGE					
2200 \pm 40		¹ ARMSTRONG 83C	OMEG	–	$18 K^- p \rightarrow \Lambda \bar{p} X$
2235 \pm 50		¹ BAUBILLIER 81	HBC	–	$8 K^- p \rightarrow \Lambda \bar{p} X$
2260 \pm 20		¹ CLELAND 81	SPEC	\pm	$50 K^+ p \rightarrow \Lambda \bar{p} X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2280 \pm 20		TIKHOMIROV 03	SPEC		$40.0 \pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
2147 \pm 4	37	CHLIAPNIK...	79	HBC	$+ 32 K^+ p \rightarrow \bar{\Lambda} p X$
2240 \pm 20	20	LISSAUER	70	HBC	$9 K^+ p$
$1 J^P = 2^-$ from moments analysis.					

 $K_2(2250)$ WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT
180 ± 30 OUR AVERAGE					
Error includes scale factor of 1.4.					
150 \pm 30		² ARMSTRONG 83C	OMEG	–	$18 K^- p \rightarrow \Lambda \bar{p} X$
210 \pm 30		² CLELAND 81	SPEC	\pm	$50 K^+ p \rightarrow \Lambda \bar{p} X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
180 \pm 60		TIKHOMIROV 03	SPEC		$40.0 \pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
~ 200		² BAUBILLIER 81	HBC	–	$8 K^- p \rightarrow \Lambda \bar{p} X$
~ 40	37	CHLIAPNIK...	79	HBC	$+ 32 K^+ p \rightarrow \bar{\Lambda} p X$
80 \pm 20	20	LISSAUER	70	HBC	$9 K^+ p$
$2 J^P = 2^-$ from moments analysis.					

 $K_2(2250)$ DECAY MODES

Mode

Γ_1	$K\pi\pi$
Γ_2	$Kf_2(1270)$
Γ_3	$K^*(892)f_0(980)$
Γ_4	$p\bar{\Lambda}$

$K_2(2250)$ REFERENCES

TIKHOMIROV	03	PAN 66 828 Translated from YAF 66 860.	G.D. Tikhomirov <i>et al.</i>	
ARMSTRONG	83C	NP B227 365	T.A. Armstrong <i>et al.</i>	(BARI, BIRM, CERN+)
BAUBILLIER	81	NP B183 1	M. Baubillier <i>et al.</i>	(BIRM, CERN, GLAS+) JP
CLELAND	81	NP B184 1	W.E. Cleland <i>et al.</i>	(PITT, GEVA, LAUS+) JP
CHLIAPNIK...	79	NP B158 253	P.V. Chliapnikov <i>et al.</i>	(CERN, BELG, MONS)
LISSAUER	70	NP B18 491	D. Lissauer <i>et al.</i>	(LBL)

OTHER RELATED PAPERS

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