

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

## OMMITTED 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
<b><math>2247 \pm 17</math> OUR AVERAGE</b>					
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
<b><math>180 \pm 30</math> OUR AVERAGE</b>					
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		$40.0 \pi^- C \rightarrow K_S^0 K_S^0 K_L^0 X$
$\sim 200$		2 BAUBILLIER 81	HBC	–	$8 K^- p \rightarrow \Lambda \bar{p} X$
$\sim 40$	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

$\Gamma_1$	$K\pi\pi$
$\Gamma_2$	$Kf_2(1270)$
$\Gamma_3$	$K^*(892)f_0(980)$
$\Gamma_4$	$p\bar{\Lambda}$

## **$K_2(2250)$ 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)