

$K_2(2250)$

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

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 ± 40		¹ ARMSTRONG 83C	OMEG	–	18 $K^- p \rightarrow \Lambda \bar{p} X$
2235 ± 50		¹ BAUBILLIER 81	HBC	–	8 $K^- p \rightarrow \Lambda \bar{p} X$
2260 ± 20		¹ CLELAND 81	SPEC	±	50 $K^+ p \rightarrow \Lambda \bar{p} X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
2147 ± 4	37	CHLIAPNIK...	79	HBC	+ 32 $K^+ p \rightarrow \bar{\Lambda} p X$
2240 ± 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 ± 30		² ARMSTRONG 83C	OMEG	–	18 $K^- p \rightarrow \Lambda \bar{p} X$
210 ± 30		² CLELAND 81	SPEC	±	50 $K^+ p \rightarrow \Lambda \bar{p} X$
• • • We do not use the following data for averages, fits, limits, etc. • • •					
~ 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 ± 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	$p \bar{\Lambda}$

 $K_2(2250)$ REFERENCES

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

ALEXANDER 68B	PRL 20 755	G. Alexander <i>et al.</i>	(LRL)
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