

# K<sub>2</sub>(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<sub>2</sub>(2250) MASS

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT	
<b>2247±17 OUR AVERAGE</b>						
2200±40		<sup>1</sup> ARMSTRONG 83C	OMEG	–	18 K <sup>–</sup> p → Λp̄X	
2235±50		<sup>1</sup> BAUBILLIER 81	HBC	–	8 K <sup>–</sup> p → Λp̄X	
2260±20		<sup>1</sup> CLELAND 81	SPEC	±	50 K <sup>+</sup> p → Λp̄X	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
2280±20		TIKHOMIROV 03	SPEC		40.0 π <sup>–</sup> C → K <sub>S</sub> <sup>0</sup> K <sub>S</sub> <sup>0</sup> K <sub>L</sub> <sup>0</sup> X	
2147±4	37	CHLIAPNIK...	79	HBC	+	32 K <sup>+</sup> p → Λ̄pX
2240±20	20	LISSAUER 70	HBC		9 K <sup>+</sup> p	

<sup>1</sup> J<sup>P</sup> = 2<sup>–</sup> from moments analysis.

### K<sub>2</sub>(2250) WIDTH

VALUE (MeV)	EVTS	DOCUMENT ID	TECN	CHG	COMMENT	
<b>180±30 OUR AVERAGE</b>						
Error includes scale factor of 1.4.						
150±30		<sup>2</sup> ARMSTRONG 83C	OMEG	–	18 K <sup>–</sup> p → Λp̄X	
210±30		<sup>2</sup> CLELAND 81	SPEC	±	50 K <sup>+</sup> p → Λp̄X	
• • • We do not use the following data for averages, fits, limits, etc. • • •						
180±60		TIKHOMIROV 03	SPEC		40.0 π <sup>–</sup> C → K <sub>S</sub> <sup>0</sup> K <sub>S</sub> <sup>0</sup> K <sub>L</sub> <sup>0</sup> X	
~ 200		<sup>2</sup> BAUBILLIER 81	HBC	–	8 K <sup>–</sup> p → Λp̄X	
~ 40	37	CHLIAPNIK...	79	HBC	+	32 K <sup>+</sup> p → Λ̄pX
80±20	20	LISSAUER 70	HBC		9 K <sup>+</sup> p	

<sup>2</sup> J<sup>P</sup> = 2<sup>–</sup> from moments analysis.

### K<sub>2</sub>(2250) DECAY MODES

Mode
Γ <sub>1</sub> K π π
Γ <sub>2</sub> K f <sub>2</sub> (1270)
Γ <sub>3</sub> K*(892) f <sub>0</sub> (980)
Γ <sub>4</sub> p Λ̄

## $K_2(2250)$ REFERENCES

TIKHOMIROV	03	PAN 66 828	G.D. Tikhomirov <i>et al.</i>	
		Translated from YAF 66 860.		
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)

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