# $K_2(2250)$

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

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 $K^- p \to \Lambda \overline{p} X$ |
| 2235±50 | | [1] BAUBILLIER | 81 | HBC | − | 8 $K^- p \to \Lambda \overline{p} X$ |
| 2260±20 | | [1] CLELAND | 81 | SPEC | ± | 50 $K^+ p \to \Lambda \overline{p} X$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | | |
| 2147± 4 | 37 | CHLIAPNIK... | 79 | HBC | + | 32 $K^+ p \to \overline{\Lambda} p X$ |
| 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 $K^- p \to \Lambda \overline{p} X$ |
| 210±30 | | [2] CLELAND | 81 | SPEC | ± | 50 $K^+ p \to \Lambda \overline{p} X$ |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | | |
| ∼ 200 | | [2] BAUBILLIER | 81 | HBC | − | 8 $K^- p \to \Lambda \overline{p} X$ |
| ∼ 40 | 37 | CHLIAPNIK... | 79 | HBC | + | 32 $K^+ p \to \overline{\Lambda} p X$ |
| 80±20 | 20 | LISSAUER | 70 | HBC | | 9 $K^+ p$ |

[2] $J^P = 2^-$ from moments analysis.

## $K_2(2250)$ DECAY MODES

| | Mode |
|---|---|
| $\Gamma_1$ | $K\pi\pi$ |
| $\Gamma_2$ | $p\overline{\Lambda}$ |

## $K_2(2250)$ REFERENCES


| | | | | | |
|---|---|---|---|---|---|
| ARMSTRONG | 83C | NP B227 365 | + | (BARI, BIRM, CERN, MILA, CURIN+) | |
| BAUBILLIER | 81 | NP B183 1 | + | (BIRM, CERN, GLAS, MSU, CURIN) | JP |
| CLELAND | 81 | NP B184 1 | +Nef, Martin+ | (PITT, GEVA, LAUS, DURH) | JP |
| CHLIAPNIK... | 79 | NP B158 253 | Chliapnikov, Gerdyukov+ | (CERN, BELG, MONS) | |
| LISSAUER | 70 | NP B18 491 | +Alexander, Firestone, Goldhaber | (LBL) | |


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