

# 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 → Λ p̄ X |
| 2235 ± 50   |      | <sup>1</sup> BAUBILLIER 81 | HBC    | –   | 8 K <sup>–</sup> p → Λ p̄ X  |
| 2260 ± 20   |      | <sup>1</sup> CLELAND 81    | SPEC   | ±   | 50 K <sup>+</sup> p → Λ p̄ X |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● |      |                            |        |     |                              |
| 2147 ± 4  | 37   | CHLIAPNIK...               | 79 HBC | +   | 32 K <sup>+</sup> p → Λ̄ p X |
| 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 → Λ p̄ X |
| 210 ± 30  |      | <sup>2</sup> CLELAND 81    | SPEC   | ±   | 50 K <sup>+</sup> p → Λ p̄ X |
| ● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ● |      |                            |        |     |                              |
| ~ 200   |      | <sup>2</sup> BAUBILLIER 81 | HBC    | –   | 8 K <sup>–</sup> p → Λ p̄ X  |
| ~ 40  | 37   | CHLIAPNIK...               | 79 HBC | +   | 32 K <sup>+</sup> p → Λ̄ p X |
| 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> p Λ̄  |

### K<sub>2</sub>(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

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