# $h_1(1170)$

$$I^G(J^{PC}) = 0^-(1^{+-})$$

## $h_1(1170)$ MASS

| VALUE (MeV) | DOCUMENT ID | | TECN | CHG | COMMENT |
|---|---|---|---|---|---|
| **1170±20 OUR ESTIMATE** | | | | | |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 1168± 4 | | ANDO | 92 | SPEC | $8\ \pi^- p \to$ $\pi^+ \pi^- \pi^0 n$ |
| 1166± 5±3 | [1] | ANDO | 92 | SPEC | $8\ \pi^- p \to$ $\pi^+ \pi^- \pi^0 n$ |
| 1190±60 | [2] | DANKOWY... | 81 | SPEC | 0 | $8\ \pi p \to 3\pi n$ |

[1] Average and spread of values using 2 variants of the model of BOWLER 75.
[2] Uses the model of BOWLER 75.

## $h_1(1170)$ WIDTH

| VALUE (MeV) | DOCUMENT ID | | TECN | CHG | COMMENT |
|---|---|---|---|---|---|
| **360±40 OUR ESTIMATE** | | | | | |
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | | | |
| 345± 6 | | ANDO | 92 | SPEC | $8\ \pi^- p \to$ $\pi^+ \pi^- \pi^0 n$ |
| 375± 6±34 | [3] | ANDO | 92 | SPEC | $8\ \pi^- p \to$ $\pi^+ \pi^- \pi^0 n$ |
| 320±50 | [4] | DANKOWY... | 81 | SPEC | 0 | $8\ \pi p \to 3\pi n$ |

[3] Average and spread of values using 2 variants of the model of BOWLER 75.
[4] Uses the model of BOWLER 75.

## $h_1(1170)$ DECAY MODES

| | Mode | Fraction ($\Gamma_i/\Gamma$) |
|---|---|---|
| $\Gamma_1$ | $\rho\pi$ | seen |

## $h_1(1170)$ BRANCHING RATIOS

**$\Gamma(\rho\pi)/\Gamma_{\text{total}}$** $\hspace{4cm}$ **$\Gamma_1/\Gamma$**

| VALUE | DOCUMENT ID | TECN | COMMENT |
|---|---|---|---|
| • • • We do not use the following data for averages, fits, limits, etc. • • • | | | |
| seen | ANDO | 92 | SPEC | $8\ \pi^- p \to\ \pi^+ \pi^- \pi^0 n$ |
| seen | ATKINSON | 84 | OMEG | $20-70\ \gamma p \to$ $\pi^+ \pi^- \pi^0 p$ |
| seen | DANKOWY... | 81 | SPEC | $8\ \pi p \to\ 3\pi n$ |

## $h_1(1170)$ REFERENCES

| | | | | |
|---|---|---|---|---|
| ANDO | 92 | PL B291 496 | +Imai+ | (KEK, KYOT, NIRS, SAGA, INUS, AKIT) |
| ATKINSON | 84 | NP B231 15 | + | (BONN, CERN, GLAS, LANC, MCHS, CURIN+) |
| DANKOWY... | 81 | PRL 46 580 | Dankowych+ | (TNTO, BNL, CARL, MCGI, OHIO) |
| BOWLER | 75 | NP B97 227 | +Game, Aitchison, Dainton | (OXFTP, DARE) |