# $h_1(1170)$

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

## $h_1(1170)$ 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

**$\Gamma(\rho\pi)/\Gamma_{total}$** **$\Gamma_1/\Gamma$**

| *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 | A. Ando *et al.* | (KEK, KYOT, NIRS, SAGA+) |
| ATKINSON | 84 | NP B231 15 | M. Atkinson *et al.* | (BONN, CERN, GLAS+) |
| DANKOWY... | 81 | PRL 46 580 | J.A. Dankowych *et al.* | (TNTO, BNL, CARL+) |
| BOWLER | 75 | NP B97 227 | M.G. Bowler *et al.* | (OXFTP, DARE) |