

# $h_1(1170)$

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

## $h_1(1170)$ MASS

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
<b>1170±20 OUR ESTIMATE</b>				
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
1168 ± 4	ANDO	92	SPEC	8 $\pi^- p \rightarrow \pi^+ \pi^- \pi^0 n$
1166 ± 5±3	<sup>1</sup> ANDO	92	SPEC	8 $\pi^- p \rightarrow \pi^+ \pi^- \pi^0 n$
1190 ± 60	<sup>2</sup> DANKOWY...	81	SPEC 0	8 $\pi p \rightarrow 3\pi n$
<sup>1</sup> Average and spread of values using 2 variants of the model of BOWLER 75.				
<sup>2</sup> Uses the model of BOWLER 75.				

## $h_1(1170)$ WIDTH

<u>VALUE (MeV)</u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>CHG</u>	<u>COMMENT</u>
<b>360±40 OUR ESTIMATE</b>				
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
345 ± 6	ANDO	92	SPEC	8 $\pi^- p \rightarrow \pi^+ \pi^- \pi^0 n$
375 ± 6±34	<sup>3</sup> ANDO	92	SPEC	8 $\pi^- p \rightarrow \pi^+ \pi^- \pi^0 n$
320 ± 50	<sup>4</sup> DANKOWY...	81	SPEC 0	8 $\pi p \rightarrow 3\pi n$
<sup>3</sup> Average and spread of values using 2 variants of the model of BOWLER 75.				
<sup>4</sup> 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

<u><math>\Gamma(\rho\pi)/\Gamma_{\text{total}}</math></u>	<u>DOCUMENT ID</u>	<u>TECN</u>	<u>COMMENT</u>	<u><math>\Gamma_1/\Gamma</math></u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
seen	ANDO	92	SPEC	8 $\pi^- p \rightarrow \pi^+ \pi^- \pi^0 n$
seen	ATKINSON	84	OMEG	20-70 $\gamma p \rightarrow \pi^+ \pi^- \pi^0 p$
seen	DANKOWY...	81	SPEC	8 $\pi p \rightarrow 3\pi n$

## $h_1(1170)$ REFERENCES

ANDO	92	PL B291 496	A. Ando <i>et al.</i>	(KEK, KYOT, NIRS, SAGA+)
ATKINSON	84	NP B231 15	M. Atkinson <i>et al.</i>	(BONN, CERN, GLAS+)
DANKOWY...	81	PRL 46 580	J.A. Dankowych <i>et al.</i>	(TNTO, BNL, CARL+)
BOWLER	75	NP B97 227	M.G. Bowler <i>et al.</i>	(OXFTP, DARE)