

h₁(1170)

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

h₁(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 π ⁻ p → π ⁺ π ⁻ π ⁰ n
1166 ± 5±3	¹ ANDO	92	SPEC	8 π ⁻ p → π ⁺ π ⁻ π ⁰ n
1190±60	² DANKOWY...	81	SPEC 0	8 πp → 3πn
¹ Average and spread of values using 2 variants of the model of BOWLER 75.				
² Uses the model of BOWLER 75.				

h₁(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 π ⁻ p → π ⁺ π ⁻ π ⁰ n
375 ± 6±34	³ ANDO	92	SPEC	8 π ⁻ p → π ⁺ π ⁻ π ⁰ n
320±50	⁴ DANKOWY...	81	SPEC 0	8 πp → 3πn
³ Average and spread of values using 2 variants of the model of BOWLER 75.				
⁴ Uses the model of BOWLER 75.				

h₁(1170) DECAY MODES

Mode	Fraction (Γ _i /Γ)
Γ ₁ ρπ	seen

h₁(1170) BRANCHING RATIOS

Γ(ρπ)/Γ _{total}	DOCUMENT ID	TECN	COMMENT	Γ ₁ /Γ
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●				
seen	ANDO	92	SPEC	8 π ⁻ p → π ⁺ π ⁻ π ⁰ n
seen	ATKINSON	84	OMEG	20-70 γp → π ⁺ π ⁻ π ⁰ p
seen	DANKOWY...	81	SPEC	8 πp → 3πn

h₁(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)