^{204}Hg(p,3nγ)   1974Ha06

	Type	Author	History Citation	Literature Cutoff Date
	Full Evaluation	F. G. Kondev	NDS 196,342 (2024)	1-Sep-2023

1974Ha06: E(p)=28 MeV, pulsed beam with 1.2 ms interval and 40 μs width; Target: natural Hg; Detector: Ge(Li), measured $\gamma(\theta,H,t)$, deduced g factor.

^{202}Tl Levels

E(level)[†]	J^{π}[‡]	T$_{1/2}$[‡]	Comments
0.0	2$^-$	12.4706 d *55*	
490	4$^-$		
950	7$^+$	591 μs *3*	μ=0.90 *4*
			μ: From g=0.128 *6* based on $\gamma(\theta,H,t)$ measurement (1974Ha06).
			configuration: Dominant $\pi(s^{-1}_{1/2})\otimes\nu(i^{-1}_{13/2})$.

[†] From Eγ.
[‡] From Adopted Levels.

$\gamma(^{202}$Tl)

E$_{\gamma}$[†]	E$_i$(level)	J$^{π}_i$	E$_f$	J$^{π}_f$	Mult.[‡]	α[#]	Comments
460	950	7$^+$	490	4$^-$	E3	0.1210	α(K)=0.0613 *9*; α(L)=0.0446 *7*; α(M)=0.01162 *17*; α(N+..)=0.00349 *5* α(N)=0.00293 *5*; α(O)=0.000526 *8*; α(P)=2.99×10^{-5} *5*
490	490	4$^-$	0.0	2$^-$	E2	0.0295	α(K)=0.0210 *3*; α(L)=0.00645 *9*; α(M)=0.001596 *23*; α(N+..)=0.000479 *7* α(N)=0.000401 *6*; α(O)=7.35×10^{-5} *11*; α(P)=4.92×10^{-6} *7*

[†] From 1974Ha06, but no uncertainties were reported by the authors.
[‡] From adopted gammas.
[#] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

$^{204}\text{Hg}(p,3n\gamma)$ 1974Ha06

Level Scheme

$^{202}_{81}\text{Tl}_{121}$