^{202}Hg(γ,γ′) 1973Me07,1974Te01

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

1973Me07,1974Te01: γ rays produced from neutron-capture of 1 kg ^{60}Co. Natural Hg target. One 53 cm^3 Ge(Li). Measured: Eγ, γ(θ). Deduced: J, $T_{1/2}$.
Other: 1974Te01, 1955Me35.

^{202}Hg Levels

E(level)†	Jπ‡	$T_{1/2}$	Comments
0	0^+		
439	2^+	24 ps *5*	$T_{1/2}$: From 1955Me35.
4924 *5*	1^-	0.30 eV *5*	$T_{1/2}$: From 1974Te01. Other: ≤0.43 eV 1973Me07. $\Gamma_{\gamma 0}/\Gamma$=0.87 *16* in 1974Te01.

† From Eγ.
‡ Deduced from the γ-ray transition multipolarity.

γ(^{202}Hg)

E_γ	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
439	439	2^+	0	0^+	E2	E_γ: From 1955Me35. Mult.: From γ(θ) (1955Me35).
4924 *5*	4924	1^-	0	0^+	E1	E_γ: From 1973Me07. Other: 4922 in 1974Te01. Mult.: A_2=0.51 *2*; polarization N(parallel)/N(perpendicular)=1.18 *3* (1974Te01).

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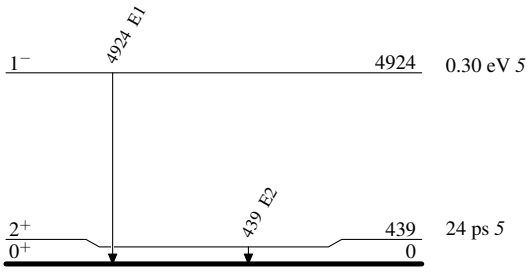
Level Scheme



$^{202}_{80}Hg_{122}$