

$^{202}\text{Hg}(\gamma,\gamma)$ 1973Me07,1974Te01

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	S. Zhu and F. G. Kondev		NDS 109, 699 (2008)	1-May-2007

1973Me07,1974Te01: γ rays produced from neutron-capture of 1 kg cobalt. Natural Hg target. OneGe(Li). Measured $E\gamma$, $\gamma(\theta)$, σ .
Deduced J, $T_{1/2}$.
Other: 1955Me35.

 ^{202}Hg Levels

E(level) [†]	J ^{π} [‡]	T _{1/2}	Comments
0	0 ⁺		
439.0 10	2 ⁺	24 ps 5	T _{1/2} : From 1955Me35: resonance fluorescence.
4922.1 10	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 a least-square fit to $E\gamma$.

[‡] Deduced from transition multipolarity.

 $\gamma(^{202}\text{Hg})$

E_{γ} [†]	$E_i(\text{level})$	J ^{π} _i	E_f	J ^{π} _f	Mult.	Comments
439	439.0	2 ⁺	0	0 ⁺	E2	Mult.: From $\gamma(\theta)$ (1955Me35).
4922	4922.1	1 ⁻	0	0 ⁺	E1	Mult.: $A_2=0.51$ 2; polarization N(parallel)/N(perpendicular)=1.18 3 (1974Te01).

[†] From 1974Te01.

 $^{202}\text{Hg}(\gamma,\gamma)$ 1973Me07,1974Te01Level Scheme