

$^{201}\text{Hg}(\gamma, \gamma')$ 1971Wa17,2005Is19,2018Yo02

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	F. G. Kondev	NDS 187,355 (2023)	20-Sep-2022

1971Wa17: Mossbauer transmission measurement with 32.2-keV γ from ^{201}Tl ε decay source.

2005Is19: synchrotron-based nuclear resonant scattering experiment at the Spring-8 facility.

2018Yo02: synchrotron-based nuclear resonant scattering experiment at the Spring-8 facility.

 ^{201}Hg Levels

E(level) [†]	J ^{π} [†]	T _{1/2}	Comments
0	3/2 ⁻		
1.5648 10	1/2 ⁻		
26.2738 3	5/2 ⁻	629 ps 18	E(level): From 2005Is19. T _{1/2} : From the time difference between the incident X-ray and the fluorescence signal from the ^{201}Hg atom in 2018Yo02.
32.155 13	3/2 ⁻	>0.1 ns	T _{1/2} : From the line width in 1971Wa17.

[†] From Adopted Levels, unless otherwise stated.

 $\gamma(^{201}\text{Hg})$

E _{γ} [†]	E _i (level)	J _i ^{π}	E _f	J _f ^{π}
30.60 3	32.155	3/2 ⁻	1.5648	1/2 ⁻
32.19 3	32.155	3/2 ⁻	0	3/2 ⁻

[†] From adopted gammas.

 $^{201}\text{Hg}(\gamma, \gamma')$ 1971Wa17,2005Is19,2018Yo02Level Scheme