

$^{199}\text{Hg}(\gamma,\gamma)$:Mossbauer 1956Me77,1957Kn37,1985La21

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 108, 79 (2007)	15-Oct-2006

1956Me77, 1957Kn37: E=208 keV, measured lifetime of 208 level.

1985La21, 1979Wu12: E γ =158 keV. Measured Mossbauer spectra, deduced quadrupole moment, RMS radius, isomer shifts.

 ^{199}Hg Levels

E(level)	J $^{\pi}$ [†]	T _{1/2}	Comments
0	1/2 ⁻		
158	5/2 ⁻		Q=-0.8 4 (1979Wu12)
208	3/2 ⁻	60 ps 9	T _{1/2} : from 1957Kn37, assuming $\Gamma_{\gamma}(208\gamma)/\Gamma=0.42$ other: 51 ps 16 (1956Me77,1954Me25).

[†] From 'Adopted Levels'.

 $\gamma(^{199}\text{Hg})$

E $_{\gamma}$	E _i (level)	J $^{\pi}$ _i	E _f	J $^{\pi}$ _f
158	158	5/2 ⁻	0	1/2 ⁻
208	208	3/2 ⁻	0	1/2 ⁻

 $^{199}\text{Hg}(\gamma,\gamma)$:Mossbauer 1956Me77,1957Kn37,1985La21Level Scheme