^{195}Pt(γ,γ′) 1974Ru03

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Huang Xiaolong and Kang Mengxiao	NDS 121, 395 (2014)	1-Mar-2014

Mossbauer effect.

^{195}Pt Levels

E(level)†	Jπ#	$T_{1/2}$	Comments
0.0	1/2−	stable	
98.9 *9*	3/2−	0.163 ns *2*	g=−0.42 *3* $T_{1/2}$: from Mossbauer measurement (1974Ru03). Others: 0.165 ns *10* (1968GeZX), 0.83 ns *14* (1972Sh38), 0.152 ns *14* (1966Bu04), 0.17 ns *2* (1965Ha36), ≥0.15 ns (1966At03). g: From average of −0.43 *10* (1966At03), −0.41 *3* (1967Ag01), −0.40 *10* (1967Bu20), and −0.44 *5* (1968GeZX). Isomer shifts: Δ<r^2>/<r^2>=−(1.6 *+44−9*)E-4 (1971Wa17); Δ<r^2>(130)/<r^2>(99)=1.3 *2* (1971Ru13), 1.61 *20* (1972Wo06); for the interpretation of isomer shifts see 1985De51.
129.8 *9*	5/2−	0.67# ns *3*	g=+0.36 *4* $T_{1/2}$: other: ≤0.52 ns *5* (1971Wa17 Moss). g: From unweighted average of +0.36 *3* (1971Ru13,1974Ru03), +0.35 *4* (1972Wo06), and +0.324 *+52−100* (1971Wa17). Branching ratio of I(γ+ce)(130γ)/I(γ+ce)(31γ): 0.049 *5* (1972Wo06), 0.052 *10* (1965Ha13).
1180‡ *10*			$T_{1/2}$: $g\Gamma^2_{\gamma 0}/\Gamma$=2.4×10^{-6} eV (1977VeZM).

† From Adopted Levels, except as noted.
‡ From 1977VeZM.
# From Adopted Levels.

γ(^{195}Pt)

Eγ†	Ei(level)	J^π_i	E_f	J^π_f	Mult.†	δ†	α‡	Comments
30.9	129.8	5/2−	98.9	3/2−	M1+E2	−0.021 *4*	37.6	α(L)=28.9 *5*; α(M)=6.70 *11*; α(N+..)=1.97 *3*
98.9	98.9	3/2−	0.0	1/2−	M1+E2	−0.130 *4*	6.85	α(K)=5.57 *8*; α(L)=0.981 *14*; α(M)=0.228 *4*; α(N+..)=0.0672 *10*
129.8	129.8	5/2−	0.0	1/2−	E2		1.727	α(K)=0.467 *7*; α(L)=0.947 *14*; α(M)=0.244 *4*; α(N+..)=0.0690 *10*

† From adopted γ radiations.
‡ 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.

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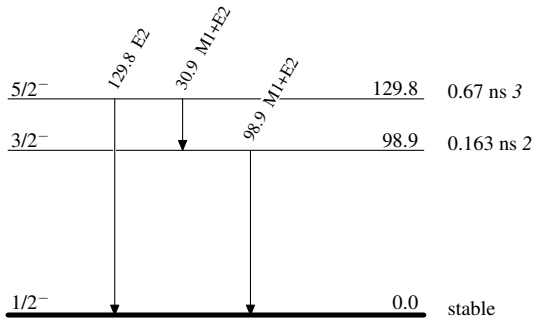
Level Scheme



$^{195}_{78}Pt_{117}$