^{192}Au IT decay (160 ms)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 113, 1871 (2012)	15-Jun-2012

Parent: ^{192}Au: E=431.6 *5*; J^π=(11$^-$); $T_{1/2}$=160 ms *20*; %IT decay=100.0
All data are from Adopted Levels, unless noted to the contrary.

^{192}Au Levels

E(level)[†]	J^π[‡]	$T_{1/2}$[‡]	Comments
0.0	1$^-$	4.94 h *9*	
31.61 *5*	2$^-$	0.69 ns *2*	
72.6 *3*	3$^-$		
135.4 *3*	(5)$^+$	29 ms	
224.9 *4*	(6)$^+$		
242.9 *4*	(7)$^+$		
371.8 *4*	(8)$^+$		
431.6 *5*	(11$^-$)	160 ms *20*	%IT=100

[†] From least-squares fit to Eγ.
[‡] From Adopted Levels.

$\gamma(^{192}Au)$

E_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	δ[‡]	α[†]	$I_{(\gamma+ce)}$[#&]	Comments
(18.0[@] *6*)	242.9	(7)$^+$	224.9	(6)$^+$					
31.61 *5*	31.61	2$^-$	0.0	1$^-$	M1+E2	0.084 *3*	46.2 *9*	100	ce(L)/(γ+ce)=0.749 *10*; ce(M)/(γ+ce)=0.177 *5*; ce(N+)/(γ+ce)=0.0524 *14* ce(N)/(γ+ce)=0.0440 *12*; ce(O)/(γ+ce)=0.00788 *22*; ce(P)/(γ+ce)=0.000443 *11*
41.0 *3*	72.6	3$^-$	31.61	2$^-$	M1+E2	0.063	18.9 *5*		α(L)=14.5 *4*; α(M)=3.40 *10*; α(N+..)=1.01 *3* α(N)=0.845 *23*; α(O)=0.154 *5*; α(P)=0.0097 *3*
59.8 *3*	431.6	(11$^-$)	371.8	(8)$^+$	E3		2.44×10^3 *8*	100	ce(L)/(γ+ce)=0.724 *18*; ce(M)/(γ+ce)=0.214 *9*; ce(N+)/(γ+ce)=0.062 *3* ce(N)/(γ+ce)=0.0537 *25*; ce(O)/(γ+ce)=0.0084 *4*; ce(P)/(γ+ce)=1.07×10^{-5} *5* %Iγ=0.0410 *13* from %(I(γ+ce))=100 and α.
62.8 *3*	135.4	(5)$^+$	72.6	3$^-$	M2		157 *4*		α(L)=117 *3*; α(M)=30.6 *8*; α(N+..)=9.20 *24* α(N)=7.75 *20*; α(O)=1.38 *4*; α(P)=0.0741 *19*
89.5 *3*	224.9	(6)$^+$	135.4	(5)$^+$	M1+E2	0.18	9.91 *17*		α(K)=7.93 *14*; α(L)=1.52 *3*; α(M)=0.357 *7*; α(N+..)=0.1059 *19* α(N)=0.0889 *16*; α(O)=0.0161 *3*; α(P)=0.000964 *17*
103.8 *3*	135.4	(5)$^+$	31.61	2$^-$	E3		103.3 *23*		α(K)=0.977 *15*; α(L)=75.2 *17*; α(M)=21.0 *5*; α(N+..)=6.08 *14*

Continued on next page (footnotes at end of table)

^{192}Au IT decay (160 ms) (continued)

$\gamma(^{192}Au)$ (continued)

E_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	δ[‡]	α[†]	Comments
								α(N)=5.24 *12*; α(O)=0.834 *19*; α(P)=0.00162 *4*
107.5 *3*	242.9	$(7)^+$	135.4	$(5)^+$	E2		3.86 *7*	α(K)=0.617 *9*; α(L)=2.43 *5*; α(M)=0.632 *13*; α(N+..)=0.180 *4*
								α(N)=0.155 *3*; α(O)=0.0249 *5*; α(P)=7.86×10^{-5} *13*
128.9 *3*	371.8	$(8)^+$	242.9	$(7)^+$	M1+E2	1.0	2.69 *5*	α(K)=1.67 *3*; α(L)=0.770 *13*; α(M)=0.193 *4*; α(N+..)=0.0559 *10*
								α(N)=0.0477 *8*; α(O)=0.00800 *14*; α(P)=0.000198 *3*
146.9 *3*	371.8	$(8)^+$	224.9	$(6)^+$	E2		1.133 *19*	α(K)=0.351 *6*; α(L)=0.587 *10*; α(M)=0.152 *3*; α(N+..)=0.0435 *8*
								α(N)=0.0374 *7*; α(O)=0.00604 *11*; α(P)=3.65×10^{-5} *6*

† Additional information 1.
‡ From Adopted Gammas.
# From %IT=100.
@ From level energy difference.
& Absolute intensity per 100 decays.

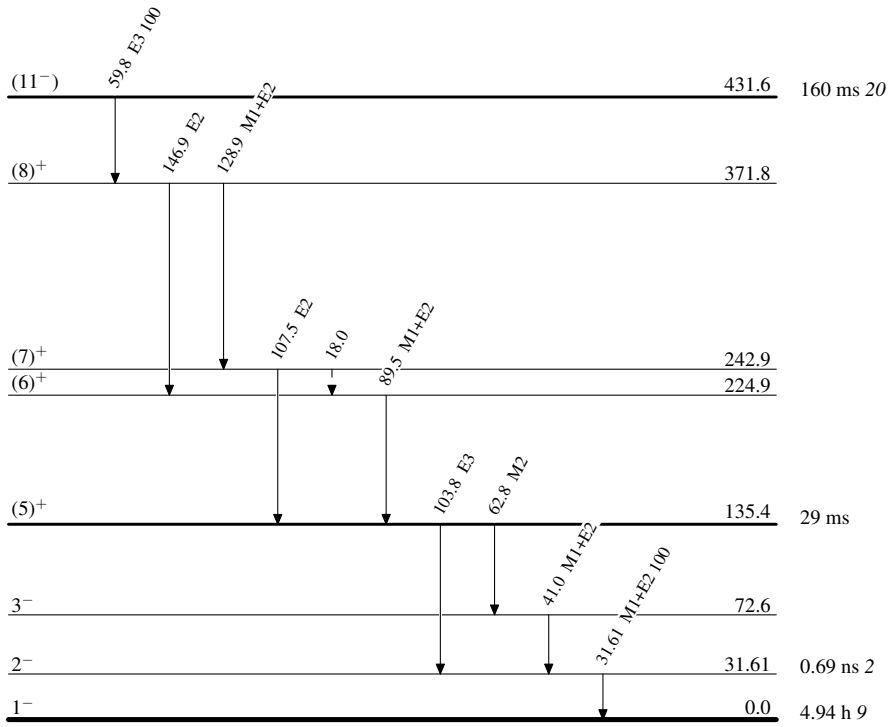
^{192}Au IT decay (160 ms)

Legend

Decay Scheme

%IT=100.0

- - - - - - ► γ Decay (Uncertain)



$^{192}_{79}Au_{113}$