^{149}Er εp decay (8.9 s) 1989Fi01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 117, 1 (2014)	1-Oct-2013

Parent: ^{149}Er: E=741.8 *4*; J^π=(11/2$^-$); $T_{1/2}$=8.9 s *2*; Q(εp)=6823 *29*; %εp decay=0.18 *7*
^{149}Er-Q(εp): From 2012Wa38.
Measured p, γ, x, β^+ in singles and coin. FWHM for protons≈35 keV.

^{148}Dy Levels

E(level)	J^π[†]
0.0	0$^+$
1677.9	2$^+$
1688.4	3$^-$
2349.4	5$^-$
2427.6	4$^+$
2732.3	6$^+$
2739.3	7$^-$

[†] From Adopted Levels.

γ(^{148}Dy)

E_γ	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	α[†]	$I_{(\gamma+ce)}$[#]	Comments
10.5	0.2	1688.4	3$^-$	1677.9	2$^+$	[E1]	26.1	5	ce(L)/(γ+ce)=0.747 *7*; ce(M)/(γ+ce)=0.176 *3*; ce(N+)/(γ+ce)=0.0405 *8* ce(N)/(γ+ce)=0.0370 *7*; ce(O)/(γ+ce)=0.00348 *7*; ce(P)/(γ+ce)=6.89×10^{-5} *14*
304.6	2	2732.3	6$^+$	2427.6	4$^+$	E2	0.0616		α(K)=0.0463 *7*; α(L)=0.01187 *17*; α(M)=0.00273 *4*; α(N+..)=0.000705 *10* α(N)=0.000621 *9*; α(O)=8.17×10^{-5} *12*; α(P)=2.42×10^{-6} *4*
382.9	3	2732.3	6$^+$	2349.4	5$^-$	E1	0.00950		α(K)=0.00806 *12*; α(L)=0.001124 *16*; α(M)=0.000245 *4*; α(N+..)=6.48×10^{-5} *9* α(N)=5.63×10^{-5} *8*; α(O)=8.09×10^{-6} *12*; α(P)=4.33×10^{-7} *6*
389.9	3	2739.3	7$^-$	2349.4	5$^-$	E2	0.0298		α(K)=0.0233 *4*; α(L)=0.00504 *7*; α(M)=0.001147 *16*; α(N+..)=0.000298 *5* α(N)=0.000262 *4*; α(O)=3.53×10^{-5} *5*; α(P)=1.267×10^{-6} *18*
661.0	14	2349.4	5$^-$	1688.4	3$^-$	E2	0.00759		α(K)=0.00625 *9*; α(L)=0.001046 *15*; α(M)=0.000233 *4*; α(N+..)=6.14×10^{-5} *9* α(N)=5.35×10^{-5} *8*; α(O)=7.53×10^{-6} *11*; α(P)=3.56×10^{-7} *5*
739.2	6	2427.6	4$^+$	1688.4	3$^-$				
749.7	4	2427.6	4$^+$	1677.9	2$^+$	E2	0.00567		α(K)=0.00471 *7*; α(L)=0.000755 *11*; α(M)=0.0001674 *24*; α(N+..)=4.42×10^{-5} *7* α(N)=3.85×10^{-5} *6*; α(O)=5.46×10^{-6} *8*; α(P)=2.70×10^{-7} *4*
1677.9	13	1677.9	2$^+$	0.0	0$^+$	E2	1.24×10^{-3}		α(K)=0.000938 *14*; α(L)=0.0001290 *18*;

Continued on next page (footnotes at end of table)

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γ(^{148}Dy) (continued)

E_γ	I_γ[#]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	α[†]	Comments
								α(M)=2.81×10^{-5} *4*; α(N+..)=0.0001475 *21*
								α(N)=6.49×10^{-6} *9*; α(O)=9.49×10^{-7} *14*; α(P)=5.42×10^{-8} *8*; α(IPF)=0.0001400 *20*
1688.4	24	1688.4	3$^-$	0.0	0$^+$	E3	0.00212	α(K)=0.001724 *25*; α(L)=0.000257 *4*; α(M)=5.67×10^{-5} *8*; α(N+..)=8.62×10^{-5} *12*
								α(N)=1.308×10^{-5} *19*; α(O)=1.90×10^{-6} *3*; α(P)=1.034×10^{-7} *15*; α(IPF)=7.11×10^{-5} *10*

[†] Additional information 1.
[‡] From adopted gammas.
[#] For absolute intensity per 100 decays, multiply by 0.0014 *5*.

Delayed Protons (^{148}Dy)

Particle normalization: %ε+%β$^+$=96.5 *7*; %εp=0.18 *7* (1989Fi01).

E(^{148}Dy)	I(p)[†]
0.0	72
1677.9	3
1688.4	7
2349.4	5
2427.6	6
2732.3	4
2739.3	3

[†] For absolute intensity per 100 decays, multiply by 0.0018 *7*.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays