Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 114, 1497 (2013)	31-Aug-2013

Q(β^-)=−8.78×10^3 *5*; S(n)=10305 *19*; S(p)=4167 *12*; Q(α)=4934.3 *16* 2017Wa10
Q(ε)=3104 *10*; S(2n)=18812 *19*; S(2p)=5769 *12*; Q(εp)=963 *9* 2017Wa10
Additional information 1.
Calculations:
Gamow-Teller β^+ decay: 1988Ku20, 1988Su16.
g.s. properties: 1996La03.

^{152}Er Levels

The level scheme is that proposed by 1992Ku13 from (HI,xnγ) and agrees, in general, with those proposed by earlier investigators.

Cross Reference (XREF) Flags

A	^{152}Tm ε decay (8.0 s)	D	^{156}Yb α decay
B	^{152}Tm ε decay (5.2 s)	E	(HI,xnγ)
C	^{153}Yb β^+p decay		

E(level)†	Jπ‡	$T_{1/2}$#	XREF	Comments
0.0@	0+	10.3 s *1*	ABCDE	%ε+%β^+=10 *4*; %α=90 *4* $T_{1/2}$ from 1982Bo04. Others: 10 s *1* (1982To14), 9.8 s *3* (1981HoZM,1970To16), 10.1 s *2* (1977Ha48). %α: From 1987To02. $<r^2>^{1/2}$=5.07 fm 3 (2004An14).
808.3@ *1*	2+		ABC E	Jπ: E2 γ to 0+. Predicted B(E2)↑=0.59 *10* (1989Ra16, best fit global syst). this corresponds to $T_{1/2}$=1.39 ps +*29*−*20*.
1480.9@ *2*	4+		ABC E	
1524.2 *3*	(3−)		A	Jπ: based on syst for N=84 nuclei.
1715.4 *2*	(2+)		A	Jπ: based on syst for N=84 nuclei.
1903.4@ *2*	6+		B E	
2183.3 *2*	8+	1.8 ns *3*	B E	μ=−0.56 *64* (2005St24,1984AdZZ) Configuration=(ν,$f_{7/2}$)(ν,$h_{9/2}$).
2947.6 *3*	10+		E	Configuration=(p,$h_{11/2}$)$^{+2}$.
≈3730?			A	E(level): possible multiplet with J^π=1−,2−,3−; deduced from ^{152}Tm ε decay (8.0 s).
3735.0& *3*	12+		E	
4289.2& *3*	14+		E	
4519.3& *3*	16+	1.2 ns *3*	E	μ=+4.6 *21* (2005St24,1984AdZZ)
4536.1 *4*	(15)+		E	
4685.0 *4*	16+	4.6 ns *14*	E	
5080.4 *3*	18+		E	Configuration=(π,$h_{11/2}$)$^{+2}_{10+}$(ν,$f_{7/2}$)(ν, $h_{9/2}$).
5414.8 *4*			E	
5459.9 *4*	(17)−		E	
5635.3 *4*	(18)−		E	
5810.9 *4*	(19)−		E	
5966.7 *4*			E	
6036.8 *4*	(19)−		E	
6176.4 *4*	(20)−		E	
6407.4 *4*			E	

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Adopted Levels, Gammas (continued)

^{152}Er Levels (continued)

E(level)[†]	Jπ[‡]	XREF	E(level)[†]	Jπ[‡]	T$_{1/2}$[#]	XREF
6477.4 *5*	(20$^-$)	E	8691.0 *7*			E
6486.9 *4*	(21)$^-$	E	8863.4 *5*			E
6555.0 *4*	(21)$^-$	E	9679.8 *7*			E
6734.3 *11*		E	9711.8 *5*	28$^+$	35 ns *4*	E
6756.8?		E	9725.3 *7*			E
6837.6 *4*	(22$^-$)	E	10083.2 *7*			E
7011.8 *4*	(22)$^-$	E	10306.5 *6*			E
7118.8 *4*	(23)$^-$	E	10394.3 *6*			E
7448.7 *4*	(24)$^-$	E	10548.3 *6*			E
8113.0 *5*		E	11121.4 *6*			E
8233.3 *4*	(26)$^-$	E	11400.0 *7*			E
8350.3 *5*		E	12121.4 *7*			E
8489.8 *6*		E	13029.7 *7*			E
8514.7 *7*	(25)	E	13386.9 *9*		11 ns *1*	E
8527.9 *5*	(27)	E	14944.6 *12*			E
8659.9 *6*	(26)$^-$	E				

[†] From a least-squares fit to the Eγ data, and rounded off by the evaluator to one decimal digit.
[‡] From (HI,xnγ), unless otherwise noted. Assignments in (HI,xnγ) are based on angular correlation and conversion coefficient measurements.
[#] From (HI,xnγ), unless otherwise noted.
[@] Band(A): Band − α Configuration=$(\nu,f_{7/2})^{+2}$.
[&] Band(B): Band − β Configuration=$(\pi,h_{11/2})^{+2}_{10+}(\nu,f_{7/2})^{+2}$.

γ(^{152}Er)

E$_i$(level)	J$_i^\pi$	Eγ[‡]	Iγ[‡]	E$_f$	J$_f^\pi$	Mult.[#]	α[†]	Comments
808.3	2$^+$	808.2[&] *1*		0.0	0$^+$	E2	0.00528	α(K)=0.00437 *7*; α(L)=0.000708 *10*; α(M)=0.0001586 *23*; α(N+..)=4.22×10^{-5} *6* α(N)=3.68×10^{-5} *6*; α(O)=5.16×10^{-6} *8*; α(P)=2.48×10^{-7} *4*
1480.9	4$^+$	672.6[&] *1*		808.3	2$^+$	E2	0.00797	α(K)=0.00652 *10*; α(L)=0.001129 *16*; α(M)=0.000254 *4*; α(N+..)=6.74×10^{-5} *10* α(N)=5.89×10^{-5} *9*; α(O)=8.16×10^{-6} *12*; α(P)=3.68×10^{-7} *6*
1524.2	(3$^-$)	715.9[a] *2*		808.3	2$^+$	[E1]	0.00261	α(K)=0.00222 *4*; α(L)=0.000305 *5*; α(M)=6.69×10^{-5} *10*; α(N+..)=1.79×10^{-5} *3* α(N)=1.554×10^{-5} *22*; α(O)=2.23×10^{-6} *4*; α(P)=1.208×10^{-7} *17*
1715.4	(2$^+$)	906.8[a] *2*	100[a] *17*	808.3	2$^+$			
		1716.0[a] *3*	33[a] *10*	0.0	0$^+$			
1903.4	6$^+$	422.5[&] *1*		1480.9	4$^+$	E2	0.0257	α(K)=0.0200 *3*; α(L)=0.00440 *7*; α(M)=0.001011 *15*; α(N+..)=0.000265 *4* α(N)=0.000233 *4*; α(O)=3.10×10^{-5} *5*; α(P)=1.089×10^{-6} *16*
2183.3	8$^+$	279.9[&] *1*		1903.4	6$^+$	E2	0.0854	α(K)=0.0615 *9*; α(L)=0.0185 *3*; α(M)=0.00433 *6*; α(N+..)=0.001121 *16* α(N)=0.000991 *14*; α(O)=0.0001264 *18*; α(P)=3.12×10^{-6} *5* B(E2)(W.u.)=3.5 *6*

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Adopted Levels, Gammas (continued)

$\gamma(^{152}Er)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[@]	α[†]	Comments
2947.6	10^+	764.3 *1*		2183.3	8^+	E2		0.00597	α(K)=0.00492 *7*; α(L)=0.000813 *12*; α(M)=0.000182 *3*; α(N+..)=4.84×10^{-5} *7* α(N)=4.23×10^{-5} *6*; α(O)=5.91×10^{-6} *9*; α(P)=2.79×10^{-7} *4*
3735.0	12^+	787.4 *1*		2947.6	10^+	E2		0.00558	α(K)=0.00461 *7*; α(L)=0.000755 *11*; α(M)=0.0001692 *24*; α(N+..)=4.50×10^{-5} *7* α(N)=3.92×10^{-5} *6*; α(O)=5.49×10^{-6} *8*; α(P)=2.62×10^{-7} *4*
4289.2	14^+	554.2 *1*		3735.0	12^+	E2		0.01267	α(K)=0.01020 *15*; α(L)=0.00192 *3*; α(M)=0.000437 *7*; α(N+..)=0.0001152 *17* α(N)=0.0001008 *15*; α(O)=1.377×10^{-5} *20*; α(P)=5.69×10^{-7} *8*
4519.3	16^+	230.1 *1*		4289.2	14^+	E2		0.1586	α(K)=0.1078 *16*; α(L)=0.0392 *6*; α(M)=0.00927 *14*; α(N+..)=0.00239 *4* α(N)=0.00212 *4*; α(O)=0.000265 *4*; α(P)=5.25×10^{-6} *8* B(E2)(W.u.)=13 *4*
4536.1	$(15)^+$	247.0 *3*		4289.2	14^+	M1		0.225	α(K)=0.189 *3*; α(L)=0.0280 *5*; α(M)=0.00620 *10*; α(N+..)=0.00167 *3* α(N)=0.001445 *24*; α(O)=0.000209 *4*; α(P)=1.159×10^{-5} *19*
4685.0	16^+	149.1 *3*	36 *4*	4536.1	$(15)^+$	M1		0.911 *18*	α(K)=0.765 *15*; α(L)=0.1141 *23*; α(M)=0.0253 *5*; α(N+..)=0.00680 *14* α(N)=0.00590 *12*; α(O)=0.000854 *17*; α(P)=4.71×10^{-5} *10* B(M1)(W.u.)=0.00025 *9*
		165.8 *3*	22 *2*	4519.3	16^+	M1+E2	2.0	0.515 *11*	α(K)=0.336 *7*; α(L)=0.137 *3*; α(M)=0.0327 *8*; α(N+..)=0.00839 *19* α(N)=0.00744 *17*; α(O)=0.000924 *21*; α(P)=1.70×10^{-5} *3* B(M1)(W.u.)=2.2×10^{-5}; B(E2)(W.u.)=1.7
		395.3	100 *10*	4289.2	14^+	E2		0.0309	α(K)=0.0238 *4*; α(L)=0.00546 *9*; α(M)=0.001259 *21*; α(N+..)=0.000329 *6* α(N)=0.000290 *5*; α(O)=3.83×10^{-5} *7*; α(P)=1.283×10^{-6} *20* B(E2)(W.u.)=0.13 *5*
5080.4	18^+	395.9	12.2 *12*	4685.0	16^+	E2		0.0307	E_γ: Doublet. α(K)=0.0237 *4*; α(L)=0.00543 *9*; α(M)=0.001253 *21*; α(N+..)=0.000327 *6* α(N)=0.000288 *5*; α(O)=3.81×10^{-5} *7*; α(P)=1.278×10^{-6} *20*
		561.1 *1*	100 *5*	4519.3	16^+	E2		0.01229	E_γ: Doublet. α(K)=0.00990 *14*; α(L)=0.00186 *3*; α(M)=0.000421 *6*; α(N+..)=0.0001111 *16* α(N)=9.73×10^{-5} *14*; α(O)=1.330×10^{-5} *19*; α(P)=5.53×10^{-7} *8*
5414.8		334.3 *3*		5080.4	18^+				
5459.9	$(17)^-$	774.9 *2*	49 *5*	4685.0	16^+	E1		0.00223	α(K)=0.00190 *3*; α(L)=0.000259 *4*; α(M)=5.69×10^{-5} *8*; α(N+..)=1.521×10^{-5} *22*

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Adopted Levels, Gammas (continued)

$\gamma(^{152}Er)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[@]	α[†]	Comments
									α(N)=1.321×10^{-5} *19*; α(O)=1.90×10^{-6} *3*; α(P)=1.034×10^{-7} *15*
5459.9	(17)$^-$	940.7 *2*	100 *5*	4519.3	16$^+$	E1		1.53×10^{-3}	α(K)=0.001308 *19*; α(L)=0.0001769 *25*; α(M)=3.88×10^{-5} *6*; α(N+..)=1.038×10^{-5} *15* α(N)=9.01×10^{-6} *13*; α(O)=1.298×10^{-6} *19*; α(P)=7.16×10^{-8} *10*
5635.3	(18)$^-$	175.5 *2*		5459.9	(17)$^-$	M1+E2	+0.2	0.570 *10*	α(K)=0.475 *8*; α(L)=0.0739 *12*; α(M)=0.0165 *3*; α(N+..)=0.00441 *8* α(N)=0.00383 *7*; α(O)=0.000549 *9*; α(P)=2.91×10^{-5} *5*
5810.9	(19)$^-$	176.3 *3*	15.6 *16*	5635.3	(18)$^-$	M1		0.570 *11*	α(K)=0.479 *9*; α(L)=0.0712 *13*; α(M)=0.0158 *3*; α(N+..)=0.00424 *8* α(N)=0.00368 *7*; α(O)=0.000533 *10*; α(P)=2.94×10^{-5} *6*
		730.4 *2*	100 *5*	5080.4	18$^+$	E1		0.00251	α(K)=0.00214 *3*; α(L)=0.000293 *5*; α(M)=6.42×10^{-5} *9*; α(N+..)=1.716×10^{-5} *25* α(N)=1.490×10^{-5} *21*; α(O)=2.14×10^{-6} *3*; α(P)=1.161×10^{-7} *17*
5966.7		331.3 *3*		5635.3	(18)$^-$				
6036.8	(19)$^-$	226.2 *3*	55 *6*	5810.9	(19)$^-$	M1+E2	1.0	0.227	α(K)=0.177 *3*; α(L)=0.0388 *7*; α(M)=0.00891 *16*; α(N+..)=0.00234 *5* α(N)=0.00205 *4*; α(O)=0.000275 *5*; α(P)=1.012×10^{-5} *17*
		401.4 *2*	100 *10*	5635.3	(18)$^-$	M1		0.0616	α(K)=0.0519 *8*; α(L)=0.00756 *11*; α(M)=0.001673 *25*; α(N+..)=0.000450 *7* α(N)=0.000390 *6*; α(O)=5.66×10^{-5} *9*; α(P)=3.15×10^{-6} *5*
		577.0 *3*	50 *5*	5459.9	(17)$^-$	E2		0.01148	α(K)=0.00927 *14*; α(L)=0.001714 *25*; α(M)=0.000389 *6*; α(N+..)=0.0001026 *15* α(N)=8.98×10^{-5} *13*; α(O)=1.230×10^{-5} *18*; α(P)=5.19×10^{-7} *8*
6176.4	(20)$^-$	140.4 *4*	4 *2*	6036.8	(19)$^-$	M1		1.080 *24*	α(K)=0.906 *20*; α(L)=0.135 *3*; α(M)=0.0300 *7*; α(N+..)=0.00807 *18* α(N)=0.00700 *15*; α(O)=0.001012 *22*; α(P)=5.58×10^{-5} *12*
		209.6 *3*	30 *3*	5966.7					
		365.5 *2*	100 *5*	5810.9	(19)$^-$	M1+E2	+4.0	0.0409	α(K)=0.0315 *5*; α(L)=0.00725 *11*; α(M)=0.00167 *3*; α(N+..)=0.000438 *7* α(N)=0.000385 *6*; α(O)=5.09×10^{-5} *8*; α(P)=1.709×10^{-6} *25*

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Adopted Levels, Gammas (continued)

$\gamma(^{152}Er)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[@]	α[†]	Comments
6407.4		596.4 *3*		5810.9	$(19)^-$				
6477.4	(20^-)	1395.3		5080.4	18^+	(M2)		0.00650	α(K)=0.00545 *8*; α(L)=0.000804 *12*; α(M)=0.000178 *3*; α(N+..)=6.37×10^{-5} *9* α(N)=4.16×10^{-5} *6*; α(O)=6.04×10^{-6} *9*; α(P)=3.38×10^{-7} *5*; α(IPF)=1.58×10^{-5} *3* E_γ: Doublet.
6486.9	$(21)^-$	310.7 *2*		6176.4	$(20)^-$	M1		0.1213	α(K)=0.1021 *16*; α(L)=0.01499 *23*; α(M)=0.00332 *5*; α(N+..)=0.000892 *14* α(N)=0.000774 *12*; α(O)=0.0001121 *17*; α(P)=6.23×10^{-6} *10*
6555.0	$(21)^-$	68.6 *3*	6 *2*	6486.9	$(21)^-$	M1		8.4 *3*	α(K)=7.03 *24*; α(L)=1.06 *4*; α(M)=0.236 *8*; α(N+..)=0.0635 *22* α(N)=0.0551 *19*; α(O)=0.0080 *3*; α(P)=0.000437 *15*
		147.5 *4*	1.8 *6*	6407.4					
		378.7 *3*	29 *3*	6176.4	$(20)^-$	M1		0.0718	α(K)=0.0605 *9*; α(L)=0.00882 *13*; α(M)=0.00195 *3*; α(N+..)=0.000525 *8* α(N)=0.000455 *7*; α(O)=6.60×10^{-5} *10*; α(P)=3.68×10^{-6} *6*
		518.1 *2*	100 *5*	6036.8	$(19)^-$	E2		0.01501	α(K)=0.01200 *17*; α(L)=0.00234 *4*; α(M)=0.000533 *8*; α(N+..)=0.0001403 *20* α(N)=0.0001230 *18*; α(O)=1.669×10^{-5} *24*; α(P)=6.66×10^{-7} *10*
		744.2 *2*	38 *4*	5810.9	$(19)^-$	E2		0.00633	α(K)=0.00521 *8*; α(L)=0.000869 *13*; α(M)=0.000195 *3*; α(N+..)=5.18×10^{-5} *8* α(N)=4.52×10^{-5} *7*; α(O)=6.31×10^{-6} *9*; α(P)=2.95×10^{-7} *5*
6734.3		256.9		6477.4	(20^-)				E_γ: Doublet.
6756.8?		278.9[b]		6477.4	(20^-)				E_γ: Multiplet.
6837.6	(22^-)	661.3 *3*		6176.4	$(20)^-$	(E2)		0.00829	α(K)=0.00677 *10*; α(L)=0.001180 *17*; α(M)=0.000266 *4*; α(N+..)=7.05×10^{-5} *10* α(N)=6.16×10^{-5} *9*; α(O)=8.53×10^{-6} *13*; α(P)=3.82×10^{-7} *6*
7011.8	$(22)^-$	456.9 *3*	100 *10*	6555.0	$(21)^-$	M1		0.0440	α(K)=0.0371 *6*; α(L)=0.00538 *8*; α(M)=0.001190 *18*; α(N+..)=0.000320 *5* α(N)=0.000277 *4*; α(O)=4.02×10^{-5} *6*; α(P)=2.25×10^{-6} *4*
		524.8 *3*	71 *7*	6486.9	$(21)^-$	M1+E2	+1.0	0.0227	α(K)=0.0188 *3*; α(L)=0.00300 *5*; α(M)=0.000671 *10*; α(N+..)=0.000179 *3* α(N)=0.0001558 *23*; α(O)=2.21×10^{-5} *4*; α(P)=1.108×10^{-6} *16*
		534.3 *3*	59 *6*	6477.4	(20^-)	E2		0.01388	α(K)=0.01113 *16*; α(L)=0.00214 *4*; α(M)=0.000486 *7*; α(N+..)=0.0001281 *19* α(N)=0.0001122 *17*; α(O)=1.527×10^{-5} *23*; α(P)=6.19×10^{-7} *9*
		1596.5 *7*	20 *7*	5414.8					

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Adopted Levels, Gammas (continued)

$\gamma(^{152}Er)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[#]	δ[@]	α[†]	Comments
7118.8	$(23)^-$	281.3 *3*	12.0 *12*	6837.6	(22^-)	M1		0.1584 *25*	α(K)=0.1333 *21*; α(L)=0.0196 *3*; α(M)=0.00434 *7*; α(N+..)=0.001168 *19* α(N)=0.001013 *16*; α(O)=0.0001467 *23*; α(P)=8.14×10^{-6} *13*
		563.8 *1*	100 *5*	6555.0	$(21)^-$	E2		0.01215	α(K)=0.00979 *14*; α(L)=0.00183 *3*; α(M)=0.000415 *6*; α(N+..)=0.0001096 *16* α(N)=9.60×10^{-5} *14*; α(O)=1.312×10^{-5} *19*; α(P)=5.47×10^{-7} *8*
		631.8 *2*	29 *3*	6486.9	$(21)^-$	E2		0.00923	α(K)=0.00751 *11*; α(L)=0.001334 *19*; α(M)=0.000301 *5*; α(N+..)=7.97×10^{-5} *12* α(N)=6.97×10^{-5} *10*; α(O)=9.62×10^{-6} *14*; α(P)=4.23×10^{-7} *6*
7448.7	$(24)^-$	329.9 *1*	100 *5*	7118.8	$(23)^-$	(M1)		0.1034	α(K)=0.0871 *13*; α(L)=0.01275 *19*; α(M)=0.00282 *4*; α(N+..)=0.000759 *11* α(N)=0.000658 *10*; α(O)=9.54×10^{-5} *14*; α(P)=5.30×10^{-6} *8*
		436.7 *3*	20.6 *21*	7011.8	$(22)^-$	E2		0.0235	α(K)=0.0184 *3*; α(L)=0.00395 *6*; α(M)=0.000907 *14*; α(N+..)=0.000238 *4* α(N)=0.000209 *4*; α(O)=2.79×10^{-5} *5*; α(P)=1.003×10^{-6} *15*
8113.0		664.4 *3*		7448.7	$(24)^-$				
8233.3	$(26)^-$	120.4 *3*	6 *2*	8113.0					
		784.6 *2*	100 *10*	7448.7	$(24)^-$	E2		0.00563	α(K)=0.00465 *7*; α(L)=0.000762 *11*; α(M)=0.0001707 *24*; α(N+..)=4.54×10^{-5} *7* α(N)=3.96×10^{-5} *6*; α(O)=5.54×10^{-6} *8*; α(P)=2.64×10^{-7} *4*
8350.3		901.6 *3*		7448.7	$(24)^-$				
8489.8		256.5		8233.3	$(26)^-$				E_γ: Doublet.
8514.7	(25)	1066.5 *7*		7448.7	$(24)^-$	D			
		1394.9		7118.8	$(23)^-$	Q			E_γ: Doublet.
8527.9	(27)	177.4 *4*	4 *2*	8350.3					
		294.6 *2*	100 *5*	8233.3	$(26)^-$				
8659.9	$(26)^-$	1211.2 *6*		7448.7	$(24)^-$	E2		0.00229	α(K)=0.00192 *3*; α(L)=0.000283 *4*; α(M)=6.26×10^{-5} *9*; α(N+..)=2.31×10^{-5} *4* α(N)=1.455×10^{-5} *21*; α(O)=2.08×10^{-6} *3*; α(P)=1.096×10^{-7} *16*; α(IPF)=6.33×10^{-6} *12*
8691.0		1242.6 *7*		7448.7	$(24)^-$				
8863.4		335.5 *3*	100 *10*	8527.9	(27)				
		373.6 *3*	90 *9*	8489.8					
9679.8		1152.6 *7*		8527.9	(27)				
9711.8	28^+	848.3 *3*	40 *4*	8863.4					
		1021.0 *7*	11 *3*	8691.0					
		1051.9 *6*	100 *10*	8659.9	$(26)^-$	M2+E3	−1.5	0.00864 *13*	α(K)=0.00711 *10*; α(L)=0.001190 *17*; α(M)=0.000268 *4*; α(N+..)=7.15×10^{-5} *10* α(N)=6.23×10^{-5} *9*; α(O)=8.82×10^{-6} *13*; α(P)=4.40×10^{-7} *7*

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

$\gamma(^{152}Er)$ (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Comments
9711.8	28^+	1184.1 *6*	59 *6*	8527.9	(27)	
9725.3		(13.3)		9711.8	28^+	E_γ: Not observed. Eγ taken from level scheme.
10083.2		358.2 *3*		9725.3		
10306.5		626.8 *3*	100 *30*	9679.8		
		1777.9 *7*	63 *20*	8527.9	(27)	
10394.3		682.7 *3*		9711.8	28^+	
10548.3		154.2 *3*	100 *10*	10394.3		Mult.: ΔJ=1 (HI,xnγ).
		465.6 *3*	90 *9*	10083.2		
		822.6 *3*	61 *6*	9725.3		
11121.4		814.9 *3*	84 *8*	10306.5		
		1409.6 *7*	100 *10*	9711.8	28^+	
11400.0		278.4		11121.4		E_γ: Multiplet.
		852.0 *3*	100 *10*	10548.3		Mult.: ΔJ=2 (HI,xnγ).
		1316.1 *7*	25 *3*	10083.2		
		1687.1 *7*	24 *3*	9711.8	28^+	
12121.4		721.4 *2*		11400.0		Mult.: ΔJ=2 (HI,xnγ).
13029.7		908.3 *3*		12121.4		
13386.9		357.9		13029.7		E_γ: Doublet.
		1265.5 *6*		12121.4		Mult.: ΔJ=3 (HI,xnγ).
14944.6		1557.7 *8*		13386.9		

† Additional information 2.
‡ From (HI,xnγ), unless otherwise noted.
# From (HI,xnγ), based on angular correlation and conversion coefficient measurements, unless otherwise noted.
@ From $\gamma\gamma(\theta)$ in (HI,xnγ).
& From ^{152}Tm ε decay (5.2 s).
a From ^{152}Tm ε decay (8.0 s).
b Placement of transition in the level scheme is uncertain.

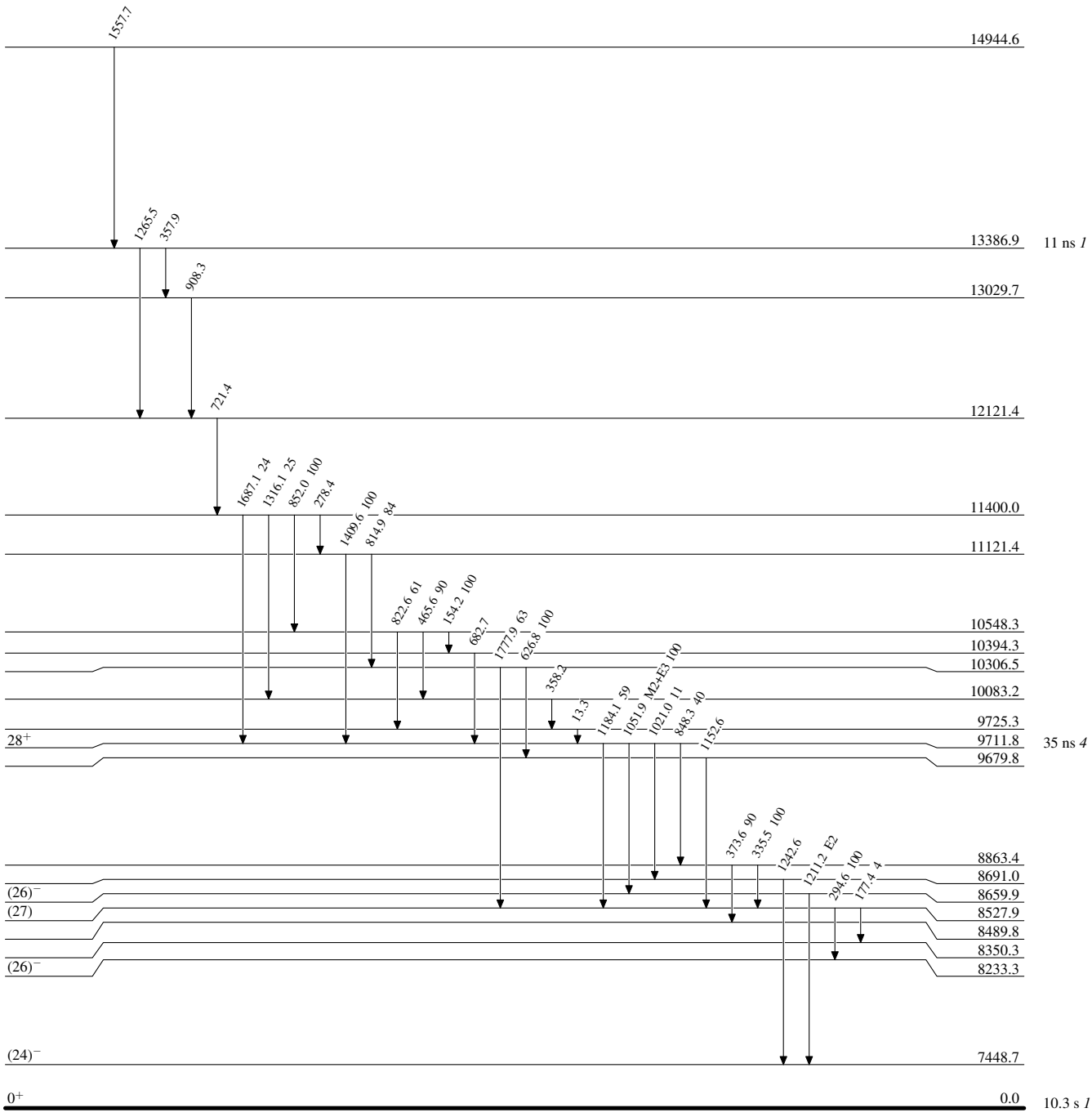
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{152}_{68}Er_{84}$

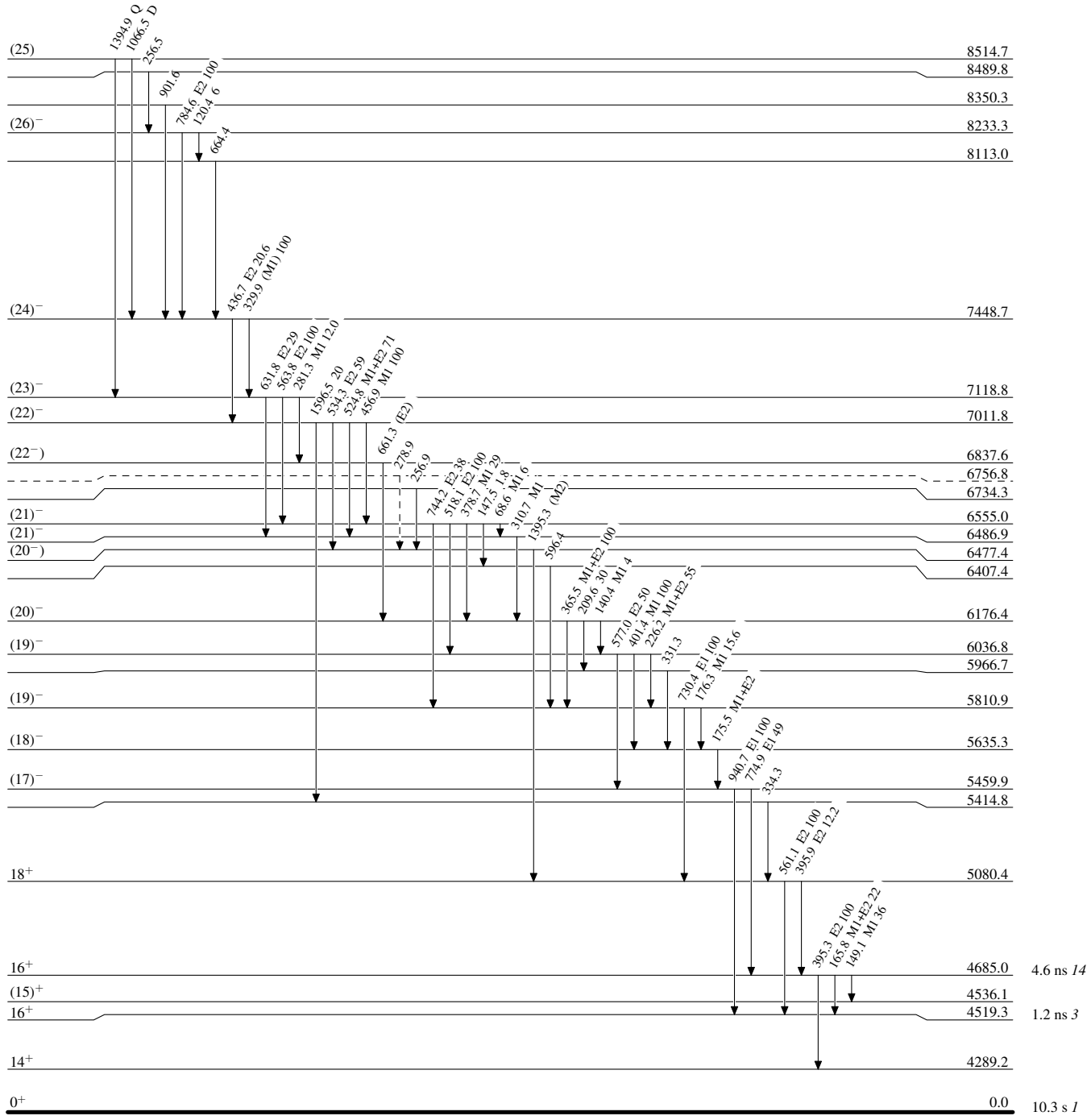
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

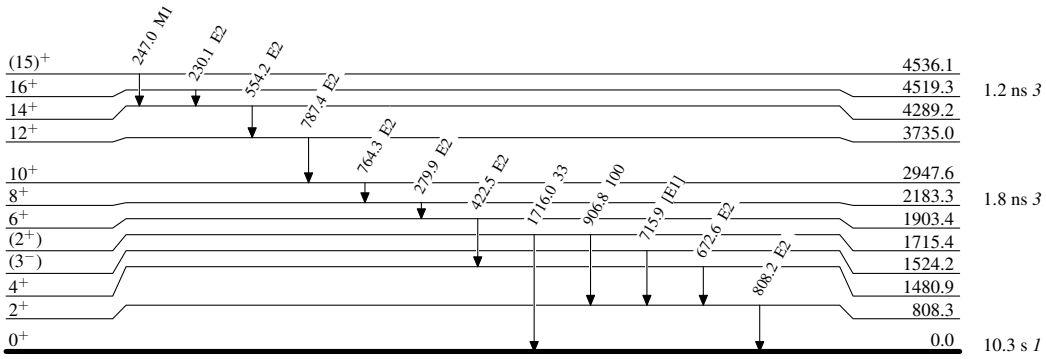


$^{152}_{68}Er_{84}$

Adopted Levels, Gammas

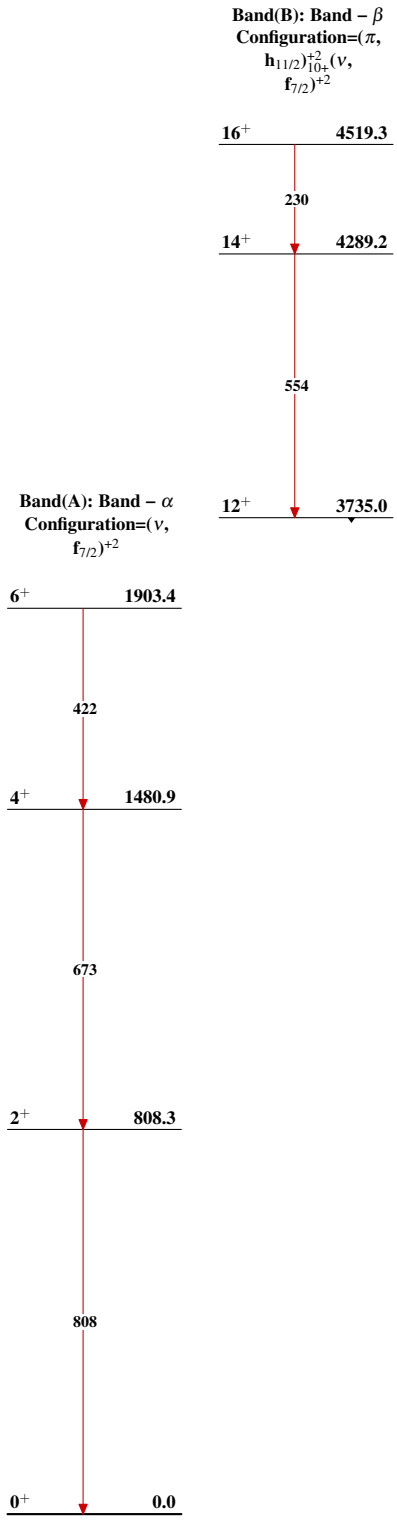
Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{152}_{68}Er_{84}$

Adopted Levels, Gammas



$^{152}_{68}Er_{84}$