Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu	NDS 109,1655 (2008)	1-Apr-2008

Q(β^-)=−5.3×10^3 *syst*; S(n)=9.68×10^3 *syst*; S(p)=1.89×10^3 *6*; Q(α)=1.21×10^3 *6* 2012Wa38
Note: Current evaluation has used the following Q record −5.44E3 SY9.62E3 SY1.89E3 6 *1*.21E3 6 2003Au03.
Uncertainties: 300 for Q(β^-), 200 for S(n).

^{124}La Levels

Quasiparticle labels:
C=π9/2[404], α=+1/2 ($g_{9/2}$ orbit).
D=π9/2[404], α=−1/2 ($g_{9/2}$ orbit).
E=π1/2[550], α=−1/2 ($h_{11/2}$ orbit).
F=π1/2[550], α=+1/2 ($h_{11/2}$ orbit).
b=ν1/2[411], α=−1/2 ($d_{3/2}$ orbit).
e=ν7/2[523], α=−1/2 ($h_{11/2}$ orbit).
f=ν7/2[523], α=+1/2 ($h_{11/2}$ orbit).
i=ν5/2[402], α=+1/2 ($d_{5/2}$ orbit).
j=ν5/2[402], α=−1/2 ($d_{5/2}$ orbit).

Cross Reference (XREF) Flags

A ^{124}Ce ε decay
B (HI,xnγ)

E(level)[†]	J$^\pi$[#h]	$T_{1/2}$	XREF	Comments
0.0+v[‡]		21 s *4*		%ε+%β^+=100 Additional information 1. J$^\pi$: Low-spin isomer, possibly 1 to 3, because of the existence of direct β feed to 2$^+$ state in ^{124}Ba observed in 1992Id01. $T_{1/2}$: from γ multiscaling (1997As05).
0.0+x[b]	(7$^+$)		B	Additional information 2. J$^\pi$: The bandhead J^π value was based on the comparison of the experimental levels energies with those calculated using CQOCM(Core-quasiparticle coupling model). The assignment is consistent with that assigned using excitation energy systematics by 1996Li13.
0.0+y[‡f]	(8$^-$)	29.21 s *17*	B	%ε+%β^+=100 Additional information 3. $T_{1/2}$: from γ multiscaling (1997As05). Others: 29 s *1* (1992Id01).29 s *2* (1992Ic02), 30 s *2* (1988GiZV), 29 s *3* (1978Bo32).
54.9+x[& 8]	(6$^-$)		B	
68.9+x[c 7]	(8$^+$)		B	
140.4+x[@ 8]	(7$^-$)		B	
180.7+x[a 8]	(7$^-$)		B	
191.4+x[b 6]	(9$^+$)		B	
267.8+x[& 8]	(8$^-$)		B	
286.43+y[g 24]	(9$^-$)		B	
324.4+x[c 7]	(10$^+$)		B	
438.6+x[@ 8]	(9$^-$)		B	
460.2+x[a 7]	(9$^-$)		B	

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Adopted Levels, Gammas (continued)

^{124}La Levels (continued)

E(level)†	Jπ#h	XREF	E(level)†	Jπ#h	XREF	E(level)†	Jπ#h	XREF
549.4+x[b] 7	(11+)	B	2986.6+x[c] 8	(18+)	B	5826.0+x[e] 11	(23+)	B
601.68+y[f] 24	(10−)	B	2992.1+x[a] 8	(17−)	B	5917.8+x[a] 13	(23−)	B
654.5+x[&] 7	(10−)	B	3045.6+x[e] 8	(17+)	B	6149.3+y[f] 12	(24−)	B
750.2+x[c] 7	(12+)	B	3099.7+y[g] 5	(17−)	B	6236.5+x[c] 10	(24+)	B
861.8+x[@] 8	(11−)	B	3128.6+y 11		B	6340.0+x[d] 11	(24+)	B
916.3+x[a] 7	(11−)	B	3387.1+x 13		B	6409.8+x[&] 12	(24−)	B
941.6+y[g] 3	(11−)	B	3431.2+y[f] 6	(18−)	B	6592.8+x[@] 12	(25−)	B
1070.1+x[b] 7	(13+)	B	3436.9+x[&] 8	(18−)	B	6686.2+x[b] 10	(25+)	B
1185.6+x[&] 7	(12−)	B	3441.7+x[d] 8	(18+)	B	6724.5+y[g] 12	(25−)	B
1233.4+x[e] 8	(11+)	B	3463.1+x[b] 8	(19+)	B	6900.5+x[e] 12	(25+)	B
1302.1+y[f] 4	(12−)	B	3641.4+x[@] 10	(19−)	B	7317.9+y[f] 14	(26−)	B
1344.1+x[c] 7	(14+)	B	3802.2+y[g] 6	(19−)	B	7389.2+x[d] 12	(26+)	B
1390.5+x[d] 7	(12+)	B	3869.0+x[a] 10	(19−)	B	7436.4+x[c] 12	(26+)	B
1403.3+x[@] 8	(13−)	B	3870.1+x[e] 8	(19+)	B	7538.3+x[&] 14	(26−)	B
1510.3+x[a] 7	(13−)	B	3987.6+y 15		B	7734.4+x[@] 14	(27−)	B
1677.8+y[g] 4	(13−)	B	4000.4+x[c] 8	(20+)	B	7900.1+x[b] 12	(27+)	B
1724.1+x[e] 7	(13+)	B	4176.1+x 16		B	8044.4+x[e] 14	(27+)	B
1740.3+x[b] 7	(15+)	B	4203.3+y[f] 8	(20−)	B	8529.3+x[d] 14	(28+)	B
1837.4+x[&] 7	(14−)	B	4350.9+x[d] 8	(20+)	B	8584.7+y[f] 15	(28−)	B
1967.2+x[d] 7	(14+)	B	4354.6+x[&] 9	(20−)	B	8687.5+x[c] 13	(28+)	B
2054.4+x[@] 9	(15−)	B	4473.3+x[b] 8	(21+)	B	8732.7+x[&] 15	(28−)	B
2059.6+y[f] 4	(14−)	B	4555.5+x[@] 10	(21−)	B	8925.0+x[@] 15	(29−)	B
2094.2+x[c] 7	(16+)	B	4638.9+y[g] 9	(21−)	B	9193.4+x[b] 14	(29+)	B
2210.9+x[a] 7	(15−)	B	4796.9+x[e] 10	(21+)	B	9751.0+x[d] 15	(30+)	B
2252.1+y 11		B	4844.7+x[a] 12	(21−)	B	10130.0+x[@] 16	(31−)	B
2329.2+x[e] 7	(15+)	B	4929.6+y 18		B	10556.7+x[b] 15	(31+)	B
2429.1+y[g] 5	(15−)	B	5096.5+x[c] 8	(22+)	B	11058.2+x[d] 16	(32+)	B
2544.1+x[b] 7	(17+)	B	5107.7+y[f] 10	(22−)	B	11377.1+x[@] 17	(33−)	B
2585.6+x[&] 8	(16−)	B	5345.0+x[&] 11	(22−)	B	11986.0+x[b] 16	(33+)	B
2647.2+x[d] 7	(16+)	B	5357.8+x[d] 9	(22+)	B	12455.3+x[d] 17	(34+)	B
2769.8+y[f] 5	(16−)	B	5531.1+x[@] 11	(23−)	B	12722.2+x[@] 18	(35−)	B
2800.1+y 15		B	5550.6+x[b] 8	(23+)	B	14184.6+x[@] 19	(37−)	B
2803.6+x[@] 9	(17−)	B	5615.1+y[g] 11	(23−)	B			

† From a least-squares fit to adopted Eγ's.
‡ High-spin ($T_{1/2}$=29 s *1*) and low-spin ($T_{1/2}$<1 s) states were proposed by 1992Id01 from β feedings to levels in ^{124}Ba.
# From (HI,xnγ), unless otherwise indicated.
@ Band(A): Eb band.
& Band(B): Ei band, α=0.
a Band(b): Ej band, α=1.
b Band(C): Ee band, α=1.
c Band(c): Ef band, α=0.
d Band(D): Fe band, α=0.
e Band(d): Ff band, α=1.
f Band(E): Ce band, α=0. Possible $K^{\pi}=8^{-}$ isomer band.

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Adopted Levels, Gammas (continued)

^{124}La Levels (continued)

[g] Band(e): De band, α=1. Possible $K^{\pi}=8^{-}$ isomer band.
[h] Assigned based on the bands structures, and with additional Mult. supported if the Mult.of the γ from that level was given, unless otherwise indicated.

$\gamma(^{124}La)$

E_i(level)	J_i^{π}	E_γ[†]	I_γ[†]	E_f	J_f^{π}	Mult.[‡]	δ
140.4+x	(7$^-$)	85.4 *6*	100 *10*	54.9+x	(6$^-$)		
180.7+x	(7$^-$)	126.3 *6*	100 *10*	54.9+x	(6$^-$)	D+Q	
191.4+x	(9$^+$)	122.6 *3*	100 *5*	68.9+x	(8$^+$)	D+Q	
		191.4 *6*	6.6 *6*	0.0+x	(7$^+$)	Q	
267.8+x	(8$^-$)	87.6 *6*	12.9 *12*	180.7+x	(7$^-$)	D+Q	
		127.6 *3*	100 *5*	140.4+x	(7$^-$)	D+Q	
		212.5 *6*	15.3 *15*	54.9+x	(6$^-$)		
286.43+y	(9$^-$)	286.5 *3*	100 *5*	0.0+y	(8$^-$)	(M1+E2)	+0.37 *1*
324.4+x	(10$^+$)	133.2 *3*	100 *5*	191.4+x	(9$^+$)	D+Q	
		255.4 *3*	22.4 *11*	68.9+x	(8$^+$)	Q	
438.6+x	(9$^-$)	171.0 *3*	100 *6*	267.8+x	(8$^-$)	D+Q	
		298.0 *3*	26.5 *13*	140.4+x	(7$^-$)	Q	
460.2+x	(9$^-$)	192.5 *3*	100 *5*	267.8+x	(8$^-$)	D+Q	
		279.6 *6*	16.9 *17*	180.7+x	(7$^-$)		
549.4+x	(11$^+$)	225.0 *3*	100 *5*	324.4+x	(10$^+$)	D+Q	−0.035 *13*
		357.9 *3*	21.4 *11*	191.4+x	(9$^+$)	Q	
601.68+y	(10$^-$)	315.3 *3*	100 *5*	286.43+y	(9$^-$)	(M1+E2)	+0.22 *5*
		601.6 *3*	65 *3*	0.0+y	(8$^-$)	Q	
654.5+x	(10$^-$)	194.5 *3*	69 *3*	460.2+x	(9$^-$)	D+Q	
		215.9 *3*	100 *5*	438.6+x	(9$^-$)	D+Q	
		386.7 *3*	77 *4*	267.8+x	(8$^-$)	Q	
750.2+x	(12$^+$)	200.9 *3*	100 *5*	549.4+x	(11$^+$)	D+Q	−0.050 *12*
		425.6 *3*	74 *3*	324.4+x	(10$^+$)	Q	
861.8+x	(11$^-$)	207.5 *6*	11.0 *10*	654.5+x	(10$^-$)	D+Q	
		401.6 *3*	47.4 *23*	460.2+x	(9$^-$)	Q	
		423.1 *3*	100 *5*	438.6+x	(9$^-$)	Q	
916.3+x	(11$^-$)	262.0 *3*	100 *5*	654.5+x	(10$^-$)	D+Q	+0.057 *4*
		456.0 *3*	35.7 *17*	460.2+x	(9$^-$)	Q	
		478		438.6+x	(9$^-$)		
		591.3 *6*	16.2 *17*	324.4+x	(10$^+$)	D	
941.6+y	(11$^-$)	340.0 *3*	55 *3*	601.68+y	(10$^-$)	D+Q	
		655.2 *3*	100 *5*	286.43+y	(9$^-$)	Q	
1070.1+x	(13$^+$)	320.0 *3*	100 *5*	750.2+x	(12$^+$)	D+Q	−0.113 *20*
		520.6 *3*	54.2 *25*	549.4+x	(11$^+$)	Q	
1185.6+x	(12$^-$)	269.3 *3*	67 *3*	916.3+x	(11$^-$)	D+Q	
		531.0 *3*	100 *5*	654.5+x	(10$^-$)	Q	
		636.4 *3*	29.6 *14*	549.4+x	(11$^+$)	D	
1302.1+y	(12$^-$)	360.5 *3*	33.1 *17*	941.6+y	(11$^-$)	D+Q	
		700.3 *3*	100 *5*	601.68+y	(10$^-$)	Q	
1344.1+x	(14$^+$)	274.1 *3*	45.5 *22*	1070.1+x	(13$^+$)	D+Q	−0.079 *15*
		593.8 *3*	100 *5*	750.2+x	(12$^+$)	Q	
1390.5+x	(12$^+$)	157.1 *6*	4.5 *4*	1233.4+x	(11$^+$)		
		840.9 *3*	100 *5*	549.4+x	(11$^+$)	(M1+E2)	+0.28 *10*
		1068.4 *6*	17.5 *19*	324.4+x	(10$^+$)		
1403.3+x	(13$^-$)	541.5 *3*	100 *5*	861.8+x	(11$^-$)	Q	
1510.3+x	(13$^-$)	324.7 *3*	82 *4*	1185.6+x	(12$^-$)	D+Q	
		593.9 *3*	100 *5*	916.3+x	(11$^-$)	Q	
		759.6 *6*	38 *4*	750.2+x	(12$^+$)	D	
1677.8+y	(13$^-$)	375.9 *6*	17.6 *19*	1302.1+y	(12$^-$)		

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Adopted Levels, Gammas (continued)

γ(^{124}La) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. ‡	δ
1677.8+y	(13$^-$)	736.3 *3*	100 *5*	941.6+y	(11$^-$)	Q	
1724.1+x	(13$^+$)	334.0 *6*	18.1 *19*	1390.5+x	(12$^+$)		
		490.7 *6*	40 *4*	1233.4+x	(11$^+$)	Q	
		974 *1*	100 *5*	750.2+x	(12$^+$)	D+Q	
		1174.0 *6*	25.1 *23*	549.4+x	(11$^+$)		
1740.3+x	(15$^+$)	396.3 *3*	90 *5*	1344.1+x	(14$^+$)	D+Q	−0.091 *13*
		670.2 *3*	100 *5*	1070.1+x	(13$^+$)	Q	
1837.4+x	(14$^-$)	326.9 *3*	33.2 *18*	1510.3+x	(13$^-$)	D+Q	
		651.8 *3*	100 *5*	1185.6+x	(12$^-$)	Q	
		767.1 *6*	23.6 *23*	1070.1+x	(13$^+$)	D	
1967.2+x	(14$^+$)	242.6 *6*	32 *3*	1724.1+x	(13$^+$)	D+Q	
		576.9 *3*	100 *5*	1390.5+x	(12$^+$)	Q	
		897.3 *3*	64 *3*	1070.1+x	(13$^+$)		
		1217.4 *6*	37 *4*	750.2+x	(12$^+$)		
2054.4+x	(15$^-$)	651.1 *3*	100 *5*	1403.3+x	(13$^-$)	Q	
2059.6+y	(14$^-$)	381.6 *6*	10.5 *12*	1677.8+y	(13$^-$)		
		757.4 *3*	100 *5*	1302.1+y	(12$^-$)	Q	
2094.2+x	(16$^+$)	354.1 *3*	21.1 *11*	1740.3+x	(15$^+$)	D+Q	
		750.3 *3*	100 *5*	1344.1+x	(14$^+$)	Q	
2210.9+x	(15$^-$)	373.7 *3*	49 *3*	1837.4+x	(14$^-$)	D+Q	
		700.6 *3*	100 *5*	1510.3+x	(13$^-$)	Q	
		867.3 *6*	26 *3*	1344.1+x	(14$^+$)		
2252.1+y		950 *1*	100	1302.1+y	(12$^-$)		
2329.2+x	(15$^+$)	362.4 *6*	58 *6*	1967.2+x	(14$^+$)	D+Q	
		605.1 *3*	100 *5*	1724.1+x	(13$^+$)	Q	
		985 *1*	75 *7*	1344.1+x	(14$^+$)		
		1257.5 *6*	25.6 *25*	1070.1+x	(13$^+$)		
2429.1+y	(15$^-$)	369.3 *6*	11.7 *14*	2059.6+y	(14$^-$)		
		751.4 *3*	100 *5*	1677.8+y	(13$^-$)	Q	
2544.1+x	(17$^+$)	449.9 *3*	41.4 *21*	2094.2+x	(16$^+$)	D+Q	
		803.8 *3*	100 *5*	1740.3+x	(15$^+$)	Q	
2585.6+x	(16$^-$)	375.2 *6*	26 *3*	2210.9+x	(15$^-$)	D+Q	
		748.0 *3*	100 *5*	1837.4+x	(14$^-$)	Q	
		845.4 *6*	22.7 *24*	1740.3+x	(15$^+$)	D+Q	
2647.2+x	(16$^+$)	318.2 *6*	30 *3*	2329.2+x	(15$^+$)		
		680.3 *3*	100 *5*	1967.2+x	(14$^+$)	Q	
		905.3 *6*	30 *3*	1740.3+x	(15$^+$)		
		1302.5 *6*	17.0 *17*	1344.1+x	(14$^+$)		
2769.8+y	(16$^-$)	341.2 *6*	5.7 *8*	2429.1+y	(15$^-$)		
		710.1 *3*	100 *5*	2059.6+y	(14$^-$)	Q	
2800.1+y		548 *1*	100	2252.1+y			
2803.6+x	(17$^-$)	749.2 *3*	100 *5*	2054.4+x	(15$^-$)	Q	
2986.6+x	(18$^+$)	442.8 *6*	7.8 *7*	2544.1+x	(17$^+$)	D+Q	
		892.3 *3*	100 *6*	2094.2+x	(16$^+$)	Q	
2992.1+x	(17$^-$)	406.1 *6*	21.6 *23*	2585.6+x	(16$^-$)		
		781.2 *3*	100 *5*	2210.9+x	(15$^-$)	Q	
3045.6+x	(17$^+$)	398.6 *6*	52 *5*	2647.2+x	(16$^+$)		
		716.1 *3*	100 *5*	2329.2+x	(15$^+$)		
3099.7+y	(17$^-$)	329.8 *6*	9.3 *12*	2769.8+y	(16$^-$)		
		670.7 *3*	100 *5*	2429.1+y	(15$^-$)	Q	
3128.6+y		1069 *1*	100	2059.6+y	(14$^-$)		
3387.1+x		843 *1*	100	2544.1+x	(17$^+$)		
3431.2+y	(18$^-$)	661.4 *3*	100 *5*	2769.8+y	(16$^-$)	Q	
3436.9+x	(18$^-$)	851.3 *3*	100 *5*	2585.6+x	(16$^-$)	Q	
3441.7+x	(18$^+$)	394.8 *6*	19.1 *20*	3045.6+x	(17$^+$)		

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Adopted Levels, Gammas (continued)

γ(^{124}La) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. ‡
3441.7+x	(18$^+$)	794.2 *3*	100 *5*	2647.2+x	(16$^+$)	Q
		1349.5 *6*	10.2 *12*	2094.2+x	(16$^+$)	
3463.1+x	(19$^+$)	476.6 *6*	25.5 *25*	2986.6+x	(18$^+$)	
		919.0 *3*	100 *5*	2544.1+x	(17$^+$)	Q
3641.4+x	(19$^-$)	837.8 *3*	100 *5*	2803.6+x	(17$^-$)	Q
3802.2+y	(19$^-$)	702.5 *3*	100 *5*	3099.7+y	(17$^-$)	Q
3869.0+x	(19$^-$)	877.0 *6*	100 *10*	2992.1+x	(17$^-$)	(Q)
3870.1+x	(19$^+$)	427.9 *6*	70 *7*	3441.7+x	(18$^+$)	
		824.7 *3*	100 *5*	3045.6+x	(17$^+$)	
3987.6+y		859 *1*	100	3128.6+y		
4000.4+x	(20$^+$)	538.0 *6*	5.6 *4*	3463.1+x	(19$^+$)	
		1013.9 *3*	100 *5*	2986.6+x	(18$^+$)	Q
4176.1+x		789 *1*	100	3387.1+x		
4203.3+y	(20$^-$)	772.1 *6*	100 *10*	3431.2+y	(18$^-$)	
4350.9+x	(20$^+$)	909.2 *3*	100 *5*	3441.7+x	(18$^+$)	Q
4354.6+x	(20$^-$)	917.7 *3*	100 *5*	3436.9+x	(18$^-$)	Q
4473.3+x	(21$^+$)	473.4 *6*	9.9 *11*	4000.4+x	(20$^+$)	
		1010.0 *3*	100 *5*	3463.1+x	(19$^+$)	Q
4555.5+x	(21$^-$)	914.1 *3*	100 *5*	3641.4+x	(19$^-$)	Q
4638.9+y	(21$^-$)	836.7 *6*	100 *10*	3802.2+y	(19$^-$)	
4796.9+x	(21$^+$)	926.8 *6*	100 *10*	3870.1+x	(19$^+$)	
4844.7+x	(21$^-$)	975.6 *6*	100 *12*	3869.0+x	(19$^-$)	Q
4929.6+y		942 *1*	100	3987.6+y		
5096.5+x	(22$^+$)	622.2 *6*	10.1 *9*	4473.3+x	(21$^+$)	
		1096.1 *3*	100 *5*	4000.4+x	(20$^+$)	Q
5107.7+y	(22$^-$)	904.4 *6*	100 *10*	4203.3+y	(20$^-$)	
5345.0+x	(22$^-$)	990.4 *6*	100 *10*	4354.6+x	(20$^-$)	Q
5357.8+x	(22$^+$)	1006.9 *3*	100 *5*	4350.9+x	(20$^+$)	Q
5531.1+x	(23$^-$)	975.6 *3*	100 *5*	4555.5+x	(21$^-$)	Q
5550.6+x	(23$^+$)	453.4 *6*	4.1 *6*	5096.5+x	(22$^+$)	D+Q
		1077.5 *3*	100 *5*	4473.3+x	(21$^+$)	
5615.1+y	(23$^-$)	976.2 *6*	100 *8*	4638.9+y	(21$^-$)	
5826.0+x	(23$^+$)	1029.1 *3*	100 *5*	4796.9+x	(21$^+$)	
5917.8+x	(23$^-$)	1073.1 *6*	100 *8*	4844.7+x	(21$^-$)	
6149.3+y	(24$^-$)	1041.5 *6*	100 *10*	5107.7+y	(22$^-$)	
6236.5+x	(24$^+$)	1140.0 *6*	100 *11*	5096.5+x	(22$^+$)	
6340.0+x	(24$^+$)	982.2 *6*	100 *10*	5357.8+x	(22$^+$)	
6409.8+x	(24$^-$)	1064.8 *6*	100 *9*	5345.0+x	(22$^-$)	
6592.8+x	(25$^-$)	1061.7 *6*	100 *9*	5531.1+x	(23$^-$)	
6686.2+x	(25$^+$)	1135.6 *6*	100 *11*	5550.6+x	(23$^+$)	
6724.5+y	(25$^-$)	1109.3 *6*	100 *11*	5615.1+y	(23$^-$)	
6900.5+x	(25$^+$)	1074.5 *6*	100 *9*	5826.0+x	(23$^+$)	
7317.9+y	(26$^-$)	1168.6 *6*	100 *12*	6149.3+y	(24$^-$)	
7389.2+x	(26$^+$)	1049.2 *6*	100 *12*	6340.0+x	(24$^+$)	
7436.4+x	(26$^+$)	1199.9 *6*	100 *7*	6236.5+x	(24$^+$)	
7538.3+x	(26$^-$)	1128.5 *6*	100 *7*	6409.8+x	(24$^-$)	
7734.4+x	(27$^-$)	1141.6 *6*	100 *10*	6592.8+x	(25$^-$)	
7900.1+x	(27$^+$)	1213.9 *6*	100 *9*	6686.2+x	(25$^+$)	
8044.4+x	(27$^+$)	1143.8 *6*	100 *12*	6900.5+x	(25$^+$)	
8529.3+x	(28$^+$)	1140.1 *6*	100 *9*	7389.2+x	(26$^+$)	
8584.7+y	(28$^-$)	1266.8 *6*	100 *11*	7317.9+y	(26$^-$)	
8687.5+x	(28$^+$)	1251.1 *6*	100 *13*	7436.4+x	(26$^+$)	
8732.7+x	(28$^-$)	1194.4 *6*	100 *17*	7538.3+x	(26$^-$)	
8925.0+x	(29$^-$)	1190.6 *6*	100 *10*	7734.4+x	(27$^-$)	
9193.4+x	(29$^+$)	1293.3 *6*	100 *9*	7900.1+x	(27$^+$)	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

γ(^{124}La) (continued)

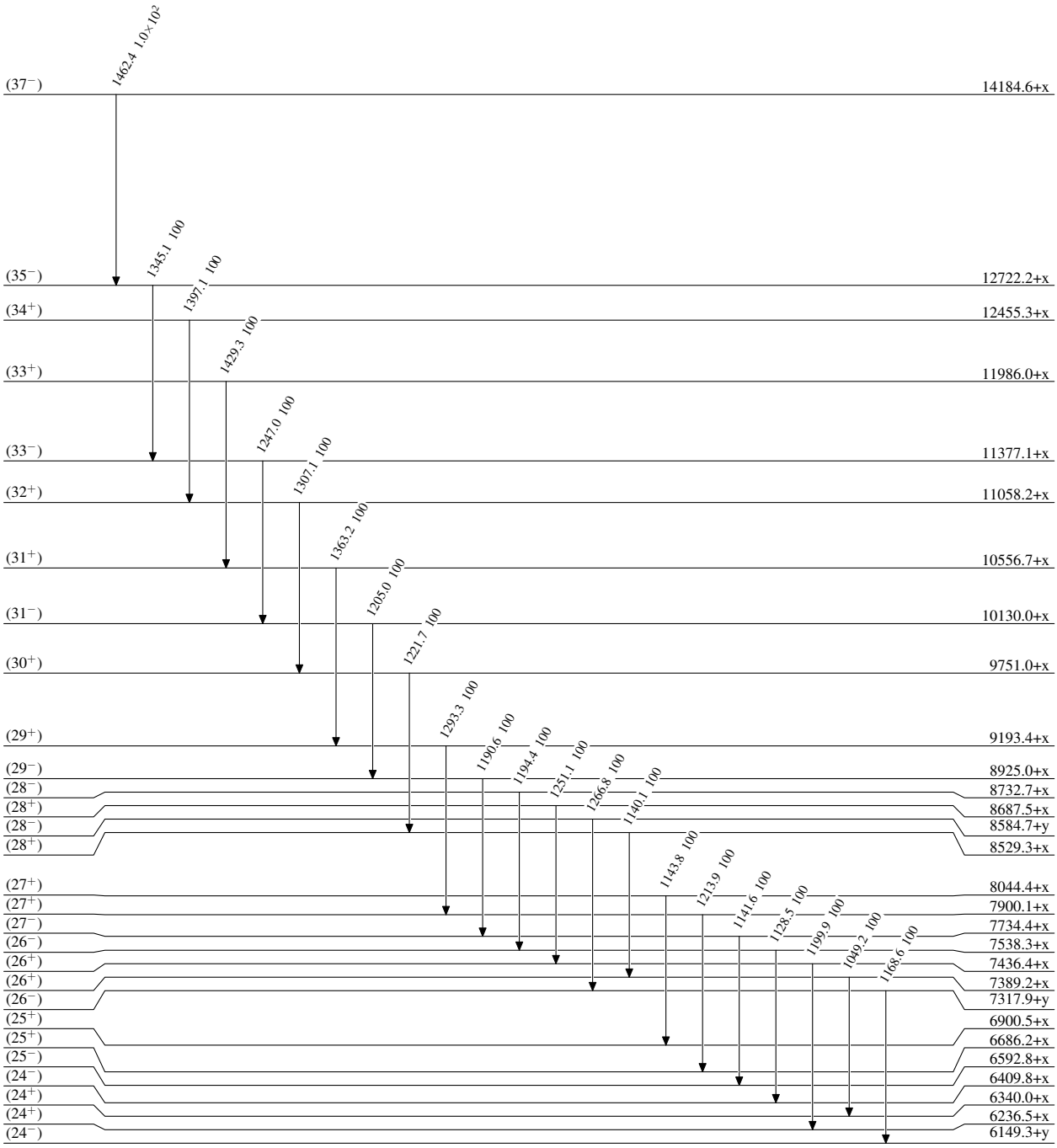
E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π
9751.0+x	(30^+)	1221.7 *6*	100 *9*	8529.3+x	(28^+)
10130.0+x	(31^-)	1205.0 *6*	100 *13*	8925.0+x	(29^-)
10556.7+x	(31^+)	1363.2 *6*	100 *11*	9193.4+x	(29^+)
11058.2+x	(32^+)	1307.1 *6*	100 *8*	9751.0+x	(30^+)
11377.1+x	(33^-)	1247.0 *6*	100 *8*	10130.0+x	(31^-)
11986.0+x	(33^+)	1429.3 *6*	100 *50*	10556.7+x	(31^+)
12455.3+x	(34^+)	1397.1 *6*	100 *11*	11058.2+x	(32^+)
12722.2+x	(35^-)	1345.1 *6*	100 *14*	11377.1+x	(33^-)
14184.6+x	(37^-)	1462.4 *6*	1.0×10^2 *10*	12722.2+x	(35^-)

† From (HI,xnγ).
‡ From γ(θ) and/or angular-correlation value R in (HI,xnγ).

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

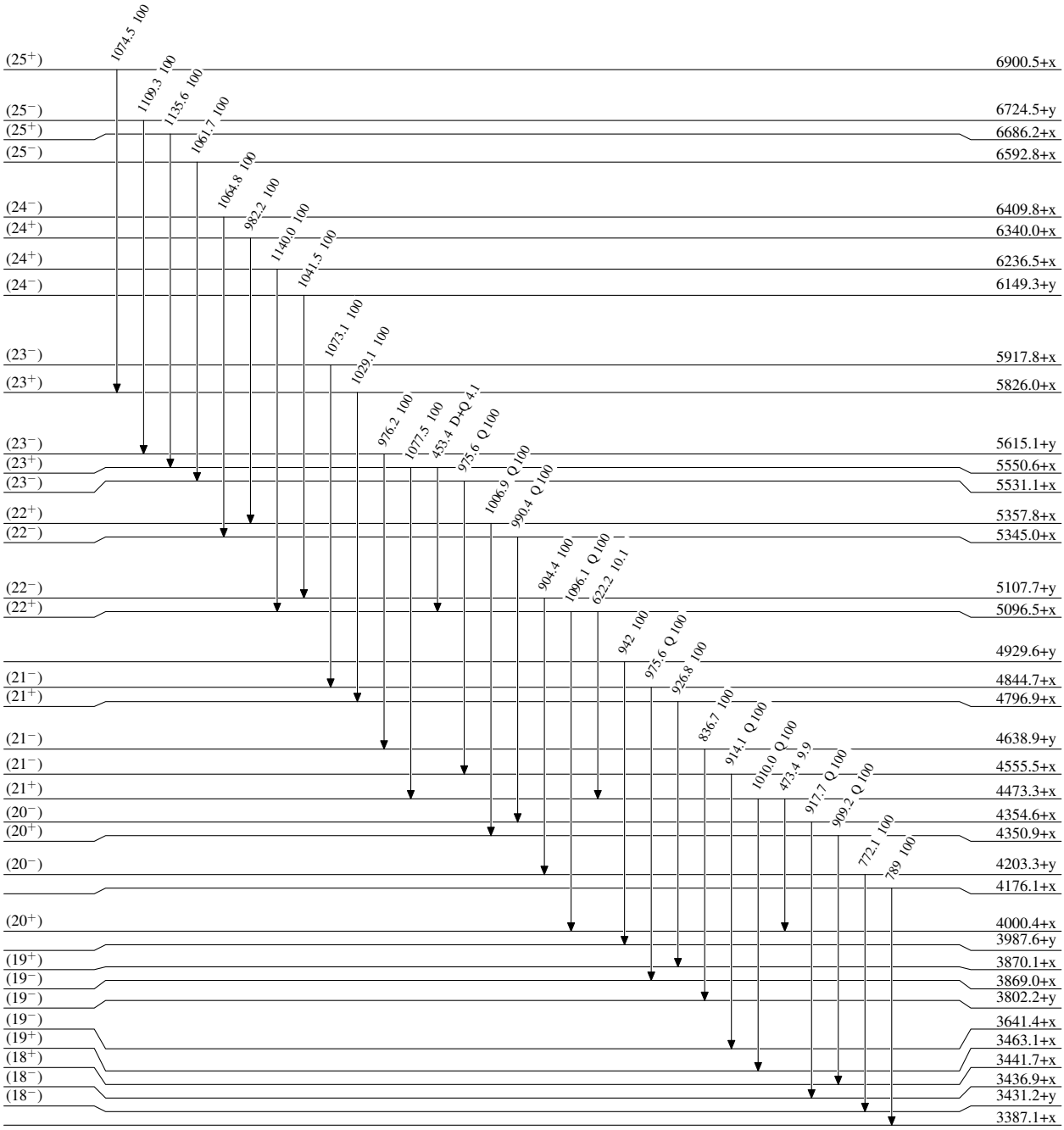


$^{124}_{57}La_{67}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

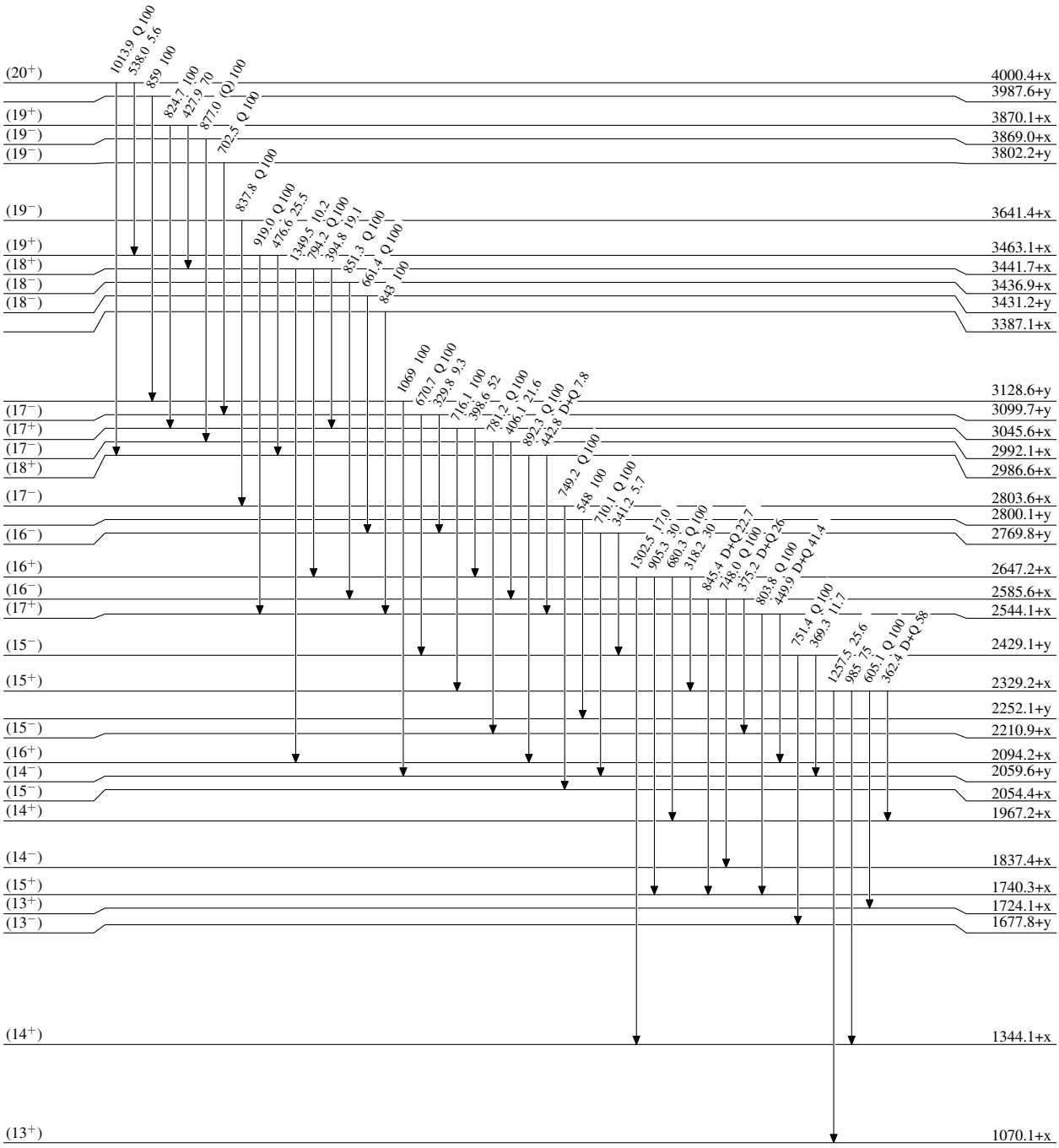


$^{124}_{57}La_{67}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

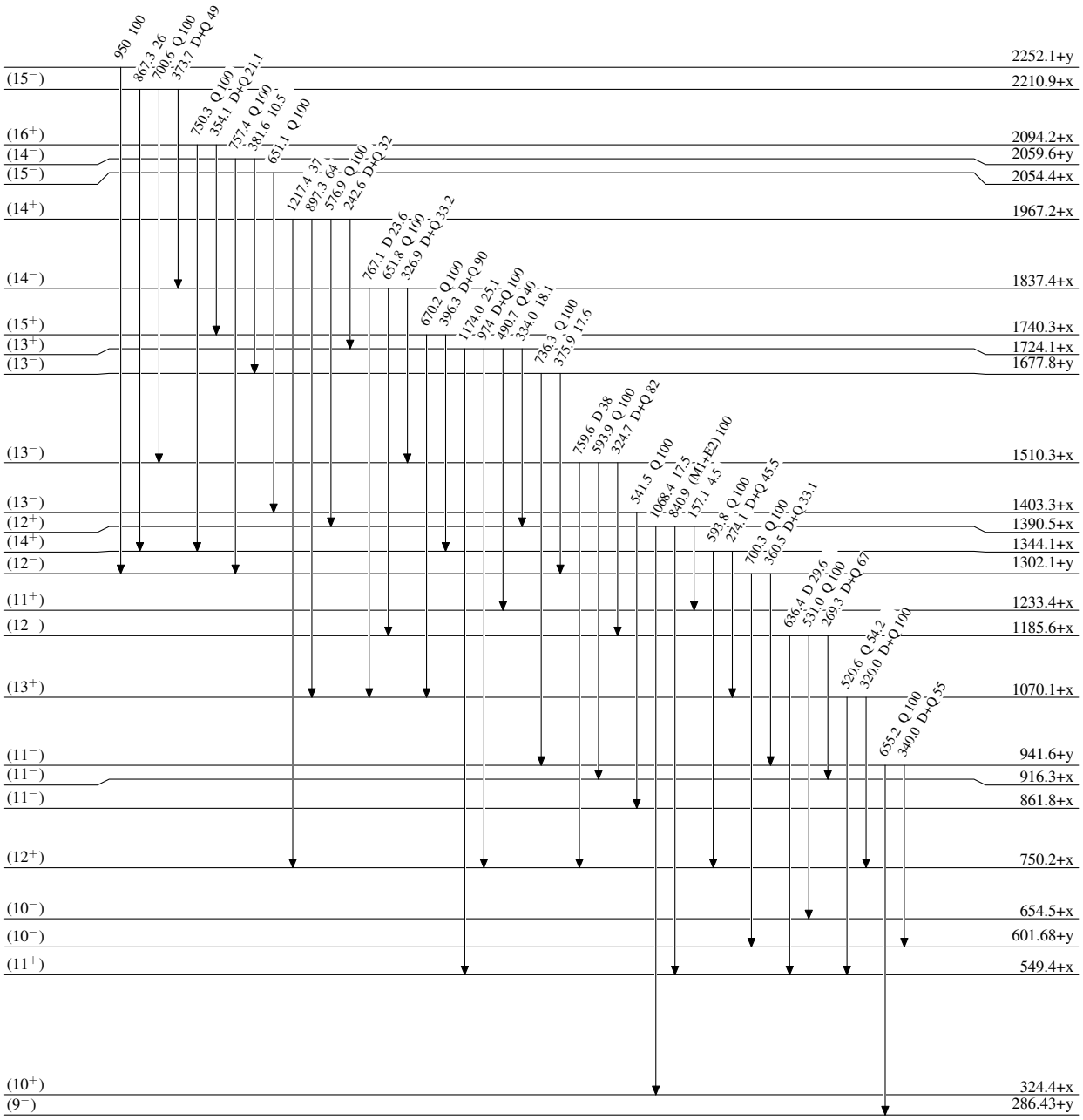


$^{124}_{57}La_{67}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

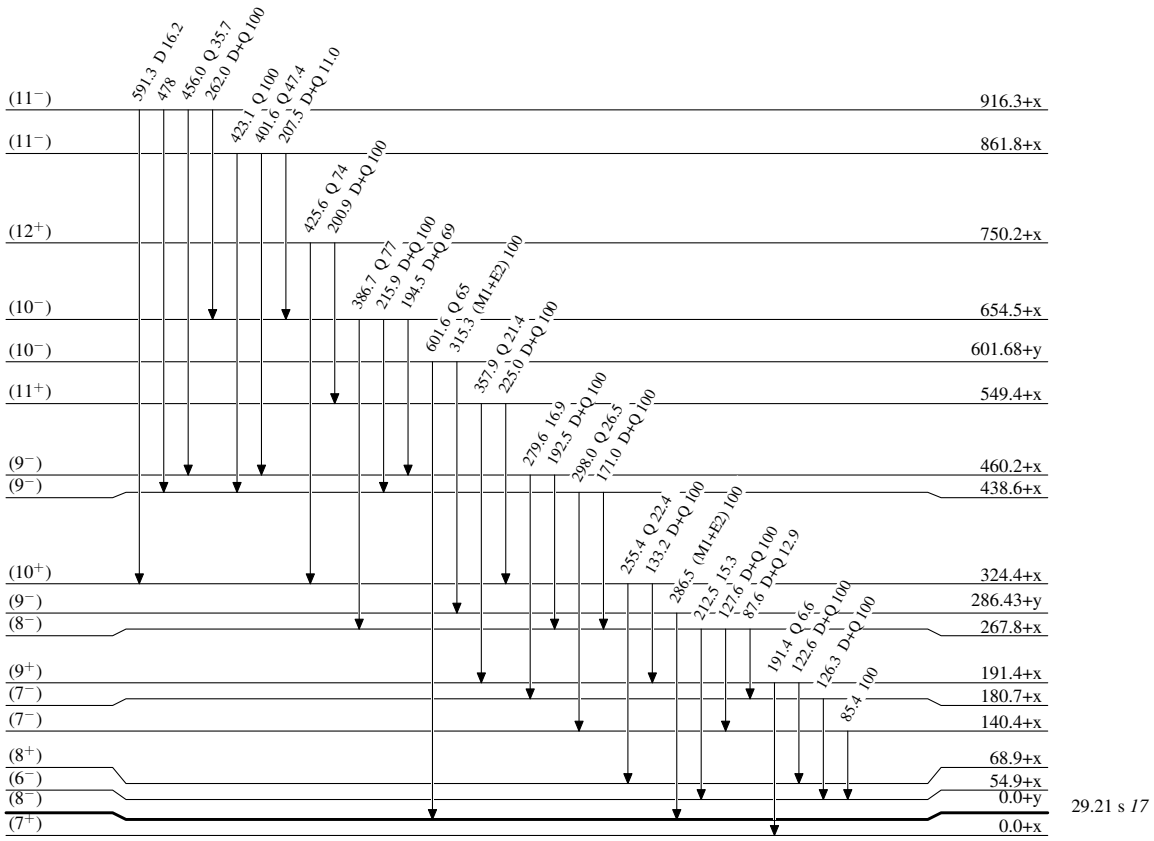


$^{124}_{57}La_{67}$

Adopted Levels, Gammas

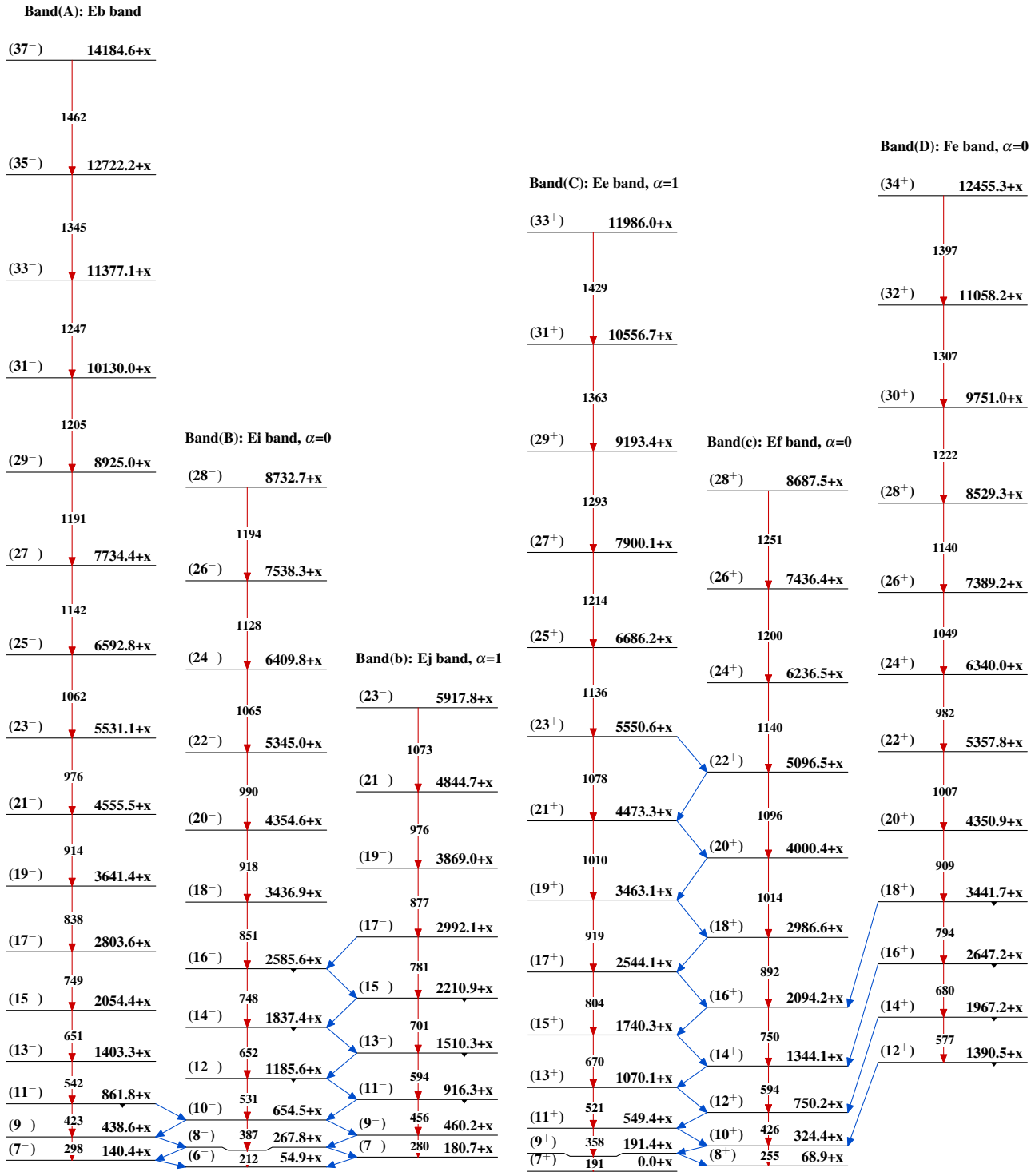
Level Scheme (continued)

Intensities: Relative photon branching from each level



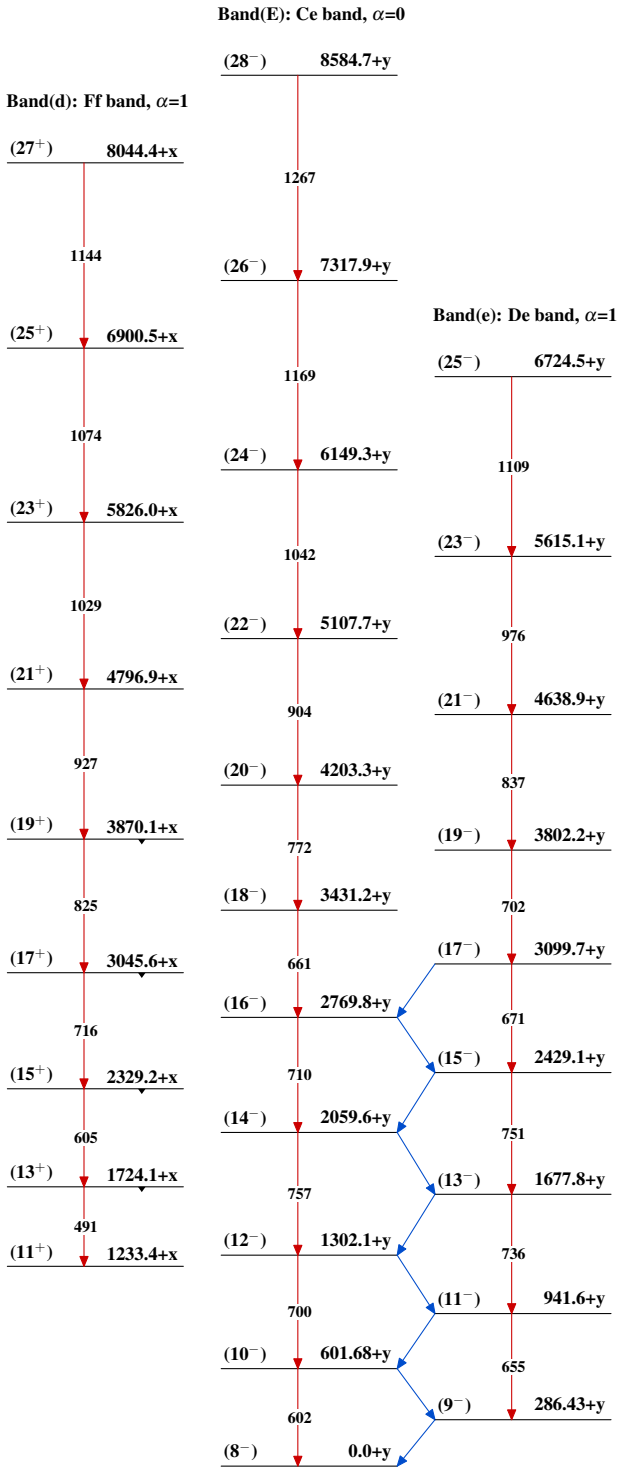
$^{124}_{57}La_{67}$

Adopted Levels, Gammas



$^{124}_{57}La_{67}$

Adopted Levels, Gammas (continued)



$^{124}_{57}La_{67}$