Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112,495 (2011)	1-Jan-2010

Q(β^-)=−3105 *8*; S(n)=7603.3 *4*; S(p)=7116 *3*; Q(α)=−1.07×10^3 *3* 2012Wa38
Note: Current evaluation has used the following Q record −3104 8 *7603.3 4* 7116.0 *29* −1076 *26* 2009AuZZ.

^{125}Xe Levels

Cross Reference (XREF) Flags

A ^{122}Te(α,nγ),^{123}Te(α,2nγ)
B ^{116}Cd(^{13}C,4nγ)
C ^{48}Ca(^{82}Se,5nγ)
D ^{125}Cs ε decay
E ^{125}Xe IT decay

E(level)[†]	J$^\pi$[‡]	T$_{1/2}$[#]	XREF	Comments
0.0[u]	1/2$^{(+)}$	16.9 h *2*	ABCDE	%ε+%β^+=100 μ=−0.269 *3* J$^\pi$: From collinear LASER-fast-beam spectroscopy (1990NeZY); log *ft*=5.6 from 1/2$^{(+)}$. T$_{1/2}$: Weighted average of 16.8 h *2* (1965An05), 17.3 h *4* (1969Lu09). Others: 20 h *1* (1950An05), 18.0 h *4* (1952Be55), 17 h *1* (1960Mo09). μ: From collinear LASER-fast-beam LASER spectroscopy (1990NeZY). See also 2005St24 compilation.
111.79[v] *12*	3/2$^{(+)}$	350 ps *20*	ABCDE	J$^\pi$: M1+E2 γ to ground state 1/2$^{(+)}$. T$_{1/2}$: From ^{125}Cs ε decay.
252.61[&] *14*	9/2$^{(-)}$	57 s *1*	ABC E	%IT=100 μ=−0.7453 *8*; Q=+0.424 *15* J$^\pi$: From collinear LASER-fast-beam LASER spectroscopy (1990NeZY); E3 γ to 3/2$^{(+)}$. T$_{1/2}$: From ^{125}Xe IT decay. μ: From collinear LASER-fast-beam LASER spectroscopy (1990NeZY). See also 2005St24 compilation. Q: From collinear LASER-fast-beam LASER spectroscopy (1990NeZY). See also 2005St24 compilation.
265.57[x] *16*	7/2		A	J$^\pi$: ΔJ=2 cascades from 15/2 at 1659-keV level.
295.89[q] *15*	7/2$^{(+)}$	0.14 μs *3*	ABC	μ=+0.92 *4* (1983Al21); Q=1.40 *15* (1983Al21) T$_{1/2}$: From ^{122}Te(α,nγ),^{123}Te(α,2nγ) data set. J$^\pi$: From differential perturbed angular distribution (1983Al21). μ: From g−factor of +0.264 by differential perturbed angular distribution (1983Al21). See also 2005St24 compilation. Q: Estimated from the relationship between B(E2) and Q using triaxial-rotor-plus-particle model (1983Al21) See also 2005St24 compilation.
310.55[@] *16*	11/2$^{(-)}$		ABC	J$^\pi$: M1+E2 γ to 9/2$^{(-)}$.
335.37[u] *12*	5/2$^{(+)}$		ABC	J$^\pi$: E2 γ to 1/2$^{(+)}$.
471.11[2] *12*	3/2$^{(+)}$		A	
483.72[v] *12*	7/2$^{(+)}$		ABC	J$^\pi$: E2 γ to 3/2$^{(+)}$.
496.99 *12*	5/2$^{(+)}$		AB	J$^\pi$: M1+E2 γ to 3/2$^{(+)}$.
526.37 *16*	1/2$^{(+)}$,3/2$^{(+)}$		A D	J$^\pi$: Log *ft*=5.5 from 1/2$^{(+)}$.
540.13[1] *13*	3/2$^{(+)}$		A D	
594.09 *13*	5/2,7/2$^{(+)}$		A	J$^\pi$: γ's to 5/2$^{(+)}$,3/2$^{(+)}$ and from (9/2,11/2).
596.77[p] *13*	9/2$^{(+)}$	80 ps *17*	ABC	
607.79 *13*	7/2$^{(-)}$		A	J$^\pi$: Angular distribution in ^{122}Te(α,nγ),^{123}Te(α,2nγ) and γ to 11/2$^{(-)}$.
708.39[w] *13*	3/2$^{(+)}$,5/2$^{(+)}$		A	J$^\pi$: γ's to 1/2$^{(+)}$ and (7/2$^+$).

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Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$[#]	XREF	Comments
711.18 *14*	3/2$^{(+)}$		A D	
736.85[&] *15*	13/2$^{(-)}$		ABC	
741.42 *14*	7/2$^{(+)}$		AB	
762.32 *14*	(5/2^{-})		A	J$^{\pi}$: Angular distribution and γ to 9/2$^{(-)}$.
765.66 *14*	3/2,5/2$^{(+)}$		A	J$^{\pi}$: γ's to 1/2$^{(+)}$ and 7/2.
796.63[@] *16*	15/2$^{(-)}$	8.7 ps *9*	ABC	
837.34[u] *13*	9/2$^{(+)}$		ABC	
870.62[q] *16*	11/2$^{(+)}$	7.8 ps *8*	ABC	
886.96[x] *17*	9/2,11/2$^{(-)}$		A	J$^{\pi}$: γ's to 7/2$^{(-)}$ and from (13/2).
889.34 *14*	7/2$^{(+)}$		A	J$^{\pi}$: γ's to 3/2$^{(+)}$ and from 11/2.
893.51[s] *16*	13/2$^{(-)}$		ABC	
896.03 *16*	5/2$^{(-)}$		A	
919.85[r] *17*	11/2		A C	J$^{\pi}$: ΔJ=2 from 13/2.
932.76 *15*	3/2$^{(+)}$,5/2,7/2$^{(+)}$		A	γ's to 3/2$^{(+)}$ and 7/2$^{(+)}$.
946.24[1] *14*	5/2$^{(+)}$,7/2$^{(+)}$		A	J$^{\pi}$: γ's to 3/2$^{(+)}$ and 9/2$^{(+)}$.
969.15[2] *15*	7/2$^{(+)}$		A	γ to 3/2$^{(+)}$ and γ from 11/2.
987.56 *17*			A	
1019.06 *15*	9/2$^{(+)}$		AB	
1024.44[y] *18*	(11/2^{-})		A	J$^{\pi}$: Angular distribution and γ to 7/2$^{(-)}$.
1030.28[v] *15*	11/2$^{(+)}$		ABC	J$^{\pi}$: Angular distribution and γ to 7/2$^{(+)}$.
1063.93 *25*			A	
1077.10 *25*			A	
1103.79 *17*	(9/2,11/2^{+})		A	J$^{\pi}$: Angular distribution and γ to 7/2$^{(+)}$.
1121.1 *4*			A	
1126.36 *19*			A	
1137.6 *4*			A	
1141.14 *19*	3/2$^{(+)}$,5/2,7/2$^{(+)}$		A	J$^{\pi}$: γ's to 3/2$^{(+)}$ and 7/2$^{(+)}$.
1161.81 *16*	5/2$^{(+)}$		A	
1171.70 *21*			A	
1193.12 *16*	7/2$^{(+)}$,9/2$^{(+)}$		A	J$^{\pi}$: γ's to 9/2$^{(+)}$ and 9/2$^{(-)}$ and γ to 3/2$^{(+)}$,5/2$^{(+)}$.
1209.93[p] *17*	13/2$^{(+)}$	2.9 ps *10*	ABC	
1217.17 *19*	5/2$^{(+)}$		A	
1245.44 *18*	(9/2^{-},11/2,13/2^{-})		A	J$^{\pi}$: γ's to 9/2$^{(-)}$ and 13/2$^{(-)}$.
1246.8 *3*			A	
1247.74[w] *17*	11/2		A C	J$^{\pi}$: γ's to (7/2^{+}) and from (15/2).
1263.60 *21*			A	
1281.69 *19*			A	
1287.77 *19*			A	
1307.2 *4*			A	
1310.15[a] *18*	15/2$^{(-)}$		ABC	
1310.2[s] *4*	(15/2^{-})		C	
1311.4 *7*	1/2,3/2		D	J$^{\pi}$: Log *ft*=6.94 from 1/2$^{(+)}$.
1312.21 *19*	3/2,5/2,7/2		A	J$^{\pi}$: γ's to 3/2 and (7/2).
1315.81 *15*	(11/2^{+})		AB	
1321.07 *19*			A	
1324.9 *7*	1/2,3/2		D	J$^{\pi}$: Log *ft*=6.9 from 1/2$^{(+)}$.
1327.0 *3*			A	
1330.88 *17*	3/2$^{(+)}$,5/2,7/2$^{(+)}$		A	J$^{\pi}$: γ's to 3/2$^{(+)}$ and 7/2$^{(+)}$.
1341.21[y] *21*	(9/2^{-},11/2,13/2^{-})		A	J$^{\pi}$: γ's to 9/2$^{(-)}$ and 13/2$^{(-)}$.
1359.64 *19*	3/2,5/2,7/2		A	J$^{\pi}$: γ to 3/2,5/2$^{(+)}$ and γ to 7/2$^{(-)}$.
1370.28 *17*	5/2$^{(+)}$,7/2$^{(+)}$		A	J$^{\pi}$: γ's to 3/2$^{(+)}$ and 9/2$^{(+)}$.
1379.95 *16*	7/2,9/2$^{(+)}$		A	J$^{\pi}$: γ's to 5/2$^{(+)}$ and 11/2.

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Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	XREF	Comments
1387.92[&] *18*	17/2		ABC	
1395.60[z] *19*	11/2$^{(-)}$,13/2,15/2		A	J$^{\pi}$: γ's to 11/2 and 15/2$^{(-)}$.
1399.29 *25*			A	
1403.86 *19*	5/2$^{(+)}$,7/2,9/2$^{(+)}$		A	J$^{\pi}$: γ's to 5/2$^{(+)}$ and 9/2$^{(+)}$.
1416.08 *19*	5/2$^{(+)}$		A	
1425.3 *4*			A	
1438.93 *18*	11/2$^{(+)}$		A	
1441.16[@] *18*	19/2$^{(-)}$	<3 ps	ABC	
1473.9 *3*			A	
1477.41 *21*			A	
1480.71[u] *19*	13/2$^{(+)}$		ABC	
1489.91 *19*	3/2$^{(+)}$,5/2,7/2		A	J$^{\pi}$: γ's to 3/2 and 7/2$^{(+)}$.
1492.60[1] *18*			A	
1494.7 *4*			A	
1510.31 *19*			A	
1536.24[q] *18*	15/2$^{(+)}$	2.6 ps *9*	ABC	
1537.96 *24*	7/2$^{(+)}$		A	
1573.34[x] *18*	(13/2)		A	
1578.59 *25*	5/2$^{(+)}$,7/2$^{(+)}$		A	
1579.4 *7*	1/2,3/2		D	J$^{\pi}$: Log *ft*=6.65 from 1/2$^{(+)}$.
1579.92 *19*	17/2$^{(-)}$		AB	
1580.13 *24*			A	
1585.53[y] *18*	(15/2)		A	
1600.09[2] *22*	(11/2)		A	
1601.84 *25*			A	
1603.8 *4*			A	
1606.09 *19*	5/2$^{(+)}$,7/2,9/2$^{(+)}$		A	J$^{\pi}$: γ's to 5/2$^{(+)}$ and 9/2$^{(+)}$.
1617.50 *19*			A	
1624.97 *19*			A	
1628.06 *22*	7/2$^{(+)}$		A	
1640.18 *17*	11/2$^{(-)}$,13/2$^{(+)}$		A	J$^{\pi}$: γ's to 9/2$^{(+)}$ and 15/2$^{(-)}$.
1647.73 *25*			A	
1648.9 *4*			A	
1659.69[r] *19*	15/2		A C	
1668.67 *24*	3/2$^{(+)}$,5/2,7/2$^{(+)}$		A	J$^{\pi}$: γ's to 3/2$^{(+)}$ and 7/2$^{(+)}$.
1678.87 *18*	7/2$^{(+)}$,9/2,11/2$^{(+)}$		A	J$^{\pi}$: γ's to 7/2$^{(+)}$ and 11/2$^{(+)}$.
1684.46 *25*			A	
1687.93 *22*			A	
1688.34 *18*			A	
1690.46 *19*	5/2$^{(+)}$,7/2$^{(+)}$		A	J$^{\pi}$: γ's to 3/2$^{(+)}$ and 9/2$^{(+)}$.
1698.3 *6*	1/2,3/2		D	J$^{\pi}$: Log *ft*=6.46 from 1/2$^{(+)}$.
1714.0 *3*			A	
1716.57 *23*			A	
1718.61[v] *22*	15/2		ABC	
1723.58 *21*			A	
1739.6 *3*			A	
1752.91 *25*	7/2,9/2,11/2$^{(+)}$		A	J$^{\pi}$: γ's to 7/2$^{(+)}$ and 11/2.
1759.93 *19*			A	
1804.71 *21*			A	
1808.7 *4*			A	
1825.94[z] *25*			A	
1826.27 *22*	(15/2)		A	
1832.87 *25*	(9/2^{-},11/2,13/2^{+})		A	J$^{\pi}$: γ's to 13/2$^{(-)}$ and 9/2$^{(+)}$.

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Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$[#]	XREF	Comments
1859.12[s] *22*	$17/2^{(-)}$		ABC	
1864.99 *25*			A	
1883.04[y] *21*	(15/2)		A	
1905.71 *23*			A	
1925.34[p] *22*	$17/2^{(+)}$	<3 ps	ABC	
1934.5 *4*			A	
1975.78[w] *19*	(15/2)		A C	
2004.61[z] *21*	(15/2,17/2)		A	
2006.43[a] *19*	$19/2^{(-)}$		ABC	
2031.04 *22*	$(9/2^+,11/2,13/2^+)$		A	Jπ: γ's to $9/2^{(+)}$ and $13/2^{(+)}$.
2035.7 *3*			A	
2046.5 *4*	$9/2^{(+)}$		A	
2062.8 *3*			A	
2082.0 *3*			A	
2095.04 *25*	$(9/2^+,11/2,13/2^+)$		A	Jπ: γ's to $9/2^{(+)}$ and $13/2^{(+)}$.
2096.8 *3*			A	
2144.5 *4*			A	
2150.86 *20*	$15/2^{(-)}$		A	
2154.9 *7*	1/2,3/2		D	Jπ: Log *ft*=6.56 from $1/2^{(+)}$.
2166.7 *4*			A	
2166.73[&] *21*	21/2		ABC	
2174.7[x] *3*			A	
2174.9 *4*			A	
2193.9 *4*			A	
2215.74[@] *21*	$23/2^{(-)}$		ABC	
2226.6 *3*	13/2		A	
2227.0 *4*			A	
2237.83[u] *24*	17/2		ABC	
2254.99[y] *24*			A	
2272.26[q] *21*	$19/2^{(+)}$	<3 ps	ABC	
2301.5 *4*			A	
2315.23 *19*			ABC	
2317.7[2] *4*			A	
2349.4 *3*			A	
2384.3 *4*			A	
2384.78 *22*	$21/2^{(-)}$		AB	
2414.9 *3*			A	
2423.88 *20*	$19/2^{(+)}$		ABC	Jπ: γ(θ) and γ to $15/2^{(+)}$.
2447.5? *4*			A	
2464.7 *3*			A	
2485.08[z] *22*	$(15/2^-,17/2,19/2^-)$		A	Jπ: γ's to $15/2^{(-)}$ and $19/2^{(-)}$.
2508.3[r] *3*	19/2		A C	
2508.7 *4*			A	
2524.4 *7*	1/2,3/2		D	Jπ: Log *ft*=6.28 from $1/2^{(+)}$.
2543.9 *7*	1/2,3/2		D	Jπ: Log *ft*=6.54 from $1/2^{(+)}$.
2550.79[v] *21*	19/2		ABC	
2572.1 *4*			A	
2604.3 *4*			A	
2616.7 *3*	(15/2,17/2)		AB	Jπ: From 1991Gr02: 1995Wi06 assigns J as $19/2^+$ but no angular distribution or DCO data are reported.
2652.73[s] *22*	19/2		ABC	
2664.3[w] *4*			A C	
2671.3 *3*			A	

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Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
2704.19[p] 24	21/2(+)	ABC	
2811.46[a] 24	(23/2)	ABC	
2819.27[l] 19	(17/2)	ABC	Jπ: From 1991Gr02.
2852.7[z] 4		A	
2890.52[c] 22	(21/2)	ABC	
2926.6[m] 3		ABC	
2952.59 22	(19/2)	ABC	Jπ: From 1991Gr02: 1995Wi06 assigns J as 23/2+ but no angular distribution or DCO data are reported.
2970.35[u] 25	(21/2)	ABC	
3000.1 3		ABC	
3055.2[&] 3	25/2	BC	
3075.14[l] 19	(21/2)	BC	
3099.9[@] 3	27/2(−)	BC	
3131.3[q] 3	(23/2)	BC	
3151.15 25	(21/2)	BC	
3210.8 3	(21/2)	B	
3272.2 4	(25/2)	B	
3277.91[m] 20	(23/2)	BC	
3322.88[b] 25	(23/2)	BC	
3379.5 3		B	
3486.4[l] 3	(25/2)	BC	
3487.2[p] 4	(25/2)	BC	
3519.4[c] 3	(25/2)	BC	
3523.8 4		B	
3562.7 4		B	
3619.0[a] 3	(27/2)	BC	
3650.0 4		B	
3752.8 4	(27/2)	B	
3898.7 5		B	
3959.8[m] 4	(27/2)	BC	
4052.8[&] 4	29/2	BC	
4064.9[b] 4	(27/2)	BC	
4070.8[@] 4	(31/2−)	ABC	
4134.7 3		BC	
4148.3[q] 11	(27/2)	C	
4211.3[t] 4	(29/2)	B	
4268.2[c] 5	(29/2)	BC	
4292.7[l] 4	(29/2)	BC	
4383.2[a] 4	(31/2)	BC	
4573.5 5	(31/2)	B	
4762.9[m] 4	(31/2)	BC	
4912.1[b] 5	(31/2)	BC	
5066.8[@] 5	(35/2)	BC	
5122.1[&] 5	(33/2)	BC	
5137.9[c] 6	(33/2)	BC	
5162.5[l] 4	(33/2)	BC	
5200.2 5		B	
5200.8[t] 11	(33/2)	B	
5319.8[d] 11	(35/2)	C	
5320.2[a] 4	(35/2)	BC	

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Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF
5826.8[b] 6	(35/2)	BC
5976.4[n] 10	(37/2)	C
5995.5[m] 7	(35/2)	C
6096.8[@] 6	(39/2)	BC
6113.5[c] 6	(37/2)	BC
6251.6[l] 5	(37/2)	BC
6344.3?[a] 11	(39/2)	C
6345.4[d] 5	(39/2)	BC
6752.9[m] 6	(39/2)	BC
6814.8[b] 12	(39/2)	C
7098.3[n] 11	(41/2)	C
7174.8 12	(43/2)	C
7177.5[c] 12	(41/2)	C
7215.7[@] 6	(43/2)	BC
7287.0[l] 6	(41/2)	BC
7334.2[@] 8	(43/2)	BC
7768.9[m] 9	(43/2)	C
7892.8[b] 16	(43/2)	C
8242.8[d] 9	(47/2)	C
8265.3[l] 6	(45/2)	BC
8315.2[n] 9	(45/2)	C
8331.5[c] 16	(45/2)	C
8351.8 15	(47/2)	C
8398.1?[@] 11	(47/2)	C
8406.8[k] 15	(47/2)	C
8453.2? 7		B
8496.7[@] 12		C
8704.7[m] 9	(47/2)	C
9289.2[n] 10	(49/2)	C
9327.0[l] 10	(49/2)	C
9401.4[d] 11	(51/2)	C
9517.8[k] 15	(51/2)	C
9568.5[c] 19	(49/2)	C
9708.9[m] 11	(51/2)	C
10368.2[n] 14	(53/2)	C
10473.4 15	(55/2)	C
10583.4[d] 15	(55/2)	C
10749.8[k] 18	(55/2)	C
10847.6[c] 21	(53/2)	C
11514.2[n] 18	(57/2)	C
11870.4[d] 18	(59/2)	C
12080.8[k] 21	(59/2)	C
12770.2[n] 20	(61/2)	C
13162.5[d] 21	(63/2)	C
13520.8[k] 23	(63/2)	C
13921[o] 4	(61/2)	C
14144.3[n] 23	(65/2)	C

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Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	T$_{1/2}$[#]	XREF	Comments
15078[k] 3	(67/2)		C	
15172[o] 4	(65/2)		C	
15638.3[n] 25	(69/2)		C	
16492[o] 4	(69/2)		C	
16758[k] 3	(71/2)		C	
17248[n] 3	(73/2)		C	
17888[o] 3	(73/2)		C	
18557[k] 3	(75/2)		C	
18967[n] 3	(77/2)		C	
19356[o] 3	(77/2)		C	
20457[k] 3	(79/2)		C	
20775[n] 3	(81/2)		C	
20911[o] 3	(81/2)		C	
22339[k] 4	(83/2)		C	
22472[o] 3	(85/2)		C	
22508[n] 3	(85/2)		C	
24130[o] 3	(89/2)		C	
24252[k] 4	(87/2)		C	
24341[n] 4	(89/2)		C	
25880[o] 4	(93/2)		C	
26172[n] 4	(93/2)		C	
26275[k] 4	(91/2)		C	
27741[o] 4	(97/2)		C	
28098[n] 4	(97/2)		C	
28413[k] 4	(95/2)		C	
29720[o] 4	(101/2)		C	
30117[n] 4	(101/2)		C	
30702[k] 4	(99/2)		C	
31826[o] 4	(105/2)		C	
32226[n] 4	(105/2)		C	
32856[k] 4	(103/2)		C	
34058[o] 4	(109/2)		C	
34408[n] 4	(109/2)		C	
35201[k] 4	(107/2)		C	
36413[o] 4	(113/2)		C	
36668[n] 4	(113/2)		C	
37618[k] 5	(111/2)		C	
x[e]	(47/2^{-})		C	Additional information 1. E(level): x ≈ 8500 from level-scheme figure 2 of 2007Al37.
1077.0+x[e] 10	(51/2^{-})		C	
2231.0+x[e] 15	(55/2^{-})		C	
3455.0+x[e] 18	(59/2^{-})		C	
4777.0+x[e] 20	(63/2^{-})		C	
6189.0+x[e] 23	(67/2^{-})		C	

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Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	J^{π}[‡]	$T_{1/2}$[#]	XREF	Comments

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	J^{π}[‡]	XREF

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	Jπ[‡]	XREF
7696.0+x[e] 25	(71/2⁻)	C
9307+x[e] 3	(75/2⁻)	C
11008+x[e] 3	(79/2⁻)	C
11036+x[f] 3	(79/2⁻)	C
12709+x[e] 3	(83/2⁻)	C
12860+x[f] 3	(83/2⁻)	C
14499+x[e] 4	(87/2⁻)	C
14747+x[f] 3	(87/2⁻)	C
16382+x[e] 4	(91/2⁻)	C
16696+x[f] 4	(91/2⁻)	C
18355+x[e] 4	(95/2⁻)	C
18730+x[f] 4	(95/2⁻)	C
20426+x[e] 4	(99/2⁻)	C
22594+x[e] 4	(103/2⁻)	C
24850+x[e] 4	(107/2⁻)	C
27174+x[e] 4	(111/2⁻)	C
y[g]	(49/2⁻)	C
1091.0+y[g] 10	(53/2⁻)	C
2339.0+y[g] 15	(57/2⁻)	C
3596.0+y[g] 18	(61/2⁻)	C
4896.0+y[g] 20	(65/2⁻)	C
6211.0+y[g] 23	(69/2⁻)	C
7592.0+y[g] 25	(73/2⁻)	C
9080+y[g] 3	(77/2⁻)	C
10684+y[g] 3	(81/2⁻)	C
12343+y[g] 3	(85/2⁻)	C
14056+y[g] 4	(89/2⁻)	C
15809+y[g] 4	(93/2⁻)	C
17671+y[g] 4	(97/2⁻)	C
19648+y[g] 4	(101/2⁻)	C
21752+y[g] 4	(105/2⁻)	C
23982+y[g] 4	(109/2⁻)	C
26337+y[g] 4	(113/2⁻)	C
z[h]	(53/2⁻)	C
1116.0+z[h] 10	(57/2⁻)	C
2317.0+z[h] 15	(61/2⁻)	C
3618.0+z[h] 18	(65/2⁻)	C
5030.0+z[h] 20	(69/2⁻)	C
6554.0+z[h] 23	(73/2⁻)	C
8189.0+z[h] 25	(77/2⁻)	C
9847+z[i] 3	(81/2⁻)	C
9919+z[h] 3	(81/2⁻)	C
11601+z[i] 3	(85/2⁻)	C
11732+z[h] 3	(85/2⁻)	C
13469+z[i] 3	(89/2⁻)	C
13652+z[h] 3	(89/2⁻)	C
15448+z[i] 3	(93/2⁻)	C
15686+z[h] 4	(93/2⁻)	C
17535+z[i] 4	(97/2⁻)	C
17844+z[h] 4	(97/2⁻)	C
20108+z[h] 4	(101/2⁻)	C
u[j]	(55/2⁺)	C

Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF
1223.0+u[j] *10*	(59/2$^+$)	C
2548.0+u[j] *15*	(63/2$^+$)	C
3940.0+u[j] *18*	(67/2$^+$)	C
5427.0+u[j] *20*	(71/2$^+$)	C
7015.0+u[j] *23*	(75/2$^+$)	C
8711.1+u[j] *25*	(79/2$^+$)	C
10517+u[j] *3*	(83/2$^+$)	C
12437+u[j] *3*	(87/2$^+$)	C
14467+u[j] *3*	(91/2$^+$)	C
16610+u[j] *4*	(95/2$^+$)	C
18861+u[j] *4*	(99/2$^+$)	C
21213+u[j] *4*	(103/2$^+$)	C
23630+u[j] *4*	(107/2$^+$)	C

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{125}Xe Levels (continued)

† From a least-squares fit to Eγ′s.
‡ From γ(θ) and linear polarization in ^{122}Te(α,nγ), ^{123}Te(α,2nγ) (1995Wi06), unless otherwise noted.
# From recoil distance (1984Al01), unless otherwise noted.
@ Band(A): Band $h_{11/2}$, α=−1/2.
& Band(a): Band $h_{11/2}$, α=+1/2.
a Band(B): Band based on $15/2^{(-)}$, α=−1/2.
b Band(C): Band based on $(23/2^-)$, α=−1/2.
c Band(D): Band based on $(21/2^-)$, α=+1/2.
d Band(E): Band based on $(35/2^-)$, α=−1/2.
e Band(F): Band based on $(47/2^-)$, α=−1/2.
f Band(f): Fork structure for band based on $(47/2^-)$, α=−1/2.
g Band(G): Band based on $(49/2^-)$, α=+1/2.
h Band(H): Band based on $(53/2^-)$, α=+1/2.
i Band(h): Fork structure for band based on $(53/2^-)$, α=−1/2.
j Band(I): Band based on $(55/2^+)$, α=−1/2.
k Band(J): Band based on $(47/2^-)$, α=−1/2.
l Band(K): Band based on $(17/2^+)$, α=+1/2.
m Band(k): Band based on $(19/2^+)$, α=−1/2.
n Band(L): Band based on $(37/2^+)$, α=+1/2.
o Band(l): Fork structure for band based on $(37/2^+)$, α=+1/2.
p Band(M): Band based on $9/2^{(+)}$, α=+1/2.
q Band(m): Band based on $7/2^{(+)}$, α=−1/2.
r Band(N): Band based on $(11/2^+)$, α=−1/2.
s Band(O): Band based on $(13/2^-)$.
t Band(o): Band $h_{11/2}$, α=+1/2.
u Band(P): Band based on $1/2^{(+)}$, α=+1/2.
v Band(p): Band based on $3/2^{(+)}$, α=−1/2.
w Band(Q): Band based on 11/2, α=−1/2.
x Band(R): π=−.
y Band(S): probably π=−.
z Band(T): probably band.
1 Band(U): probably band-2.
2 Band(V): Probably band-2. Decaying mainly to positive-parity state.

Adopted Levels, Gammas (continued)

$\gamma(^{125}Xe)$

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
111.79	$3/2^{(+)}$	111.8 *2*	100	0.0	$1/2^{(+)}$	M1+E2	0.27 *+10−13*	0.64 *4*	α(K)=0.536 *20*; α(L)=0.083 *12*; α(M)=0.017 *3*; α(N+..)=0.0039 *6* α(N)=0.0035 *5*; α(O)=0.00042 *5* B(M1)(W.u.)=0.0256 *21*; B(E2)(W.u.)=1.0×10^2 *8* Mult.,δ: From ^{125}Cs ε decay.
252.61	$9/2^{(-)}$	140.5 *2*	100	111.79	$3/2^{(+)}$	E3		4.11	B(E3)(W.u.)=0.00414 *11* α(K)=1.94 *3*; α(L)=1.71 *3*; α(M)=0.377 *6*; α(N+..)=0.0817 *14* α(N)=0.0744 *12*; α(O)=0.00726 *12* Mult.: From α in ^{125}Xe IT decay. Additional information 5.
265.57	7/2	(13)		252.61	$9/2^{(-)}$				
295.89	$7/2^{(+)}$	43.3 *3*	12 *4*	252.61	$9/2^{(-)}$	(E1)		2.09 *5*	B(E1)(W.u.)=1.8×10^{-6} *8* α(K)=1.76 *4*; α(L)=0.266 *7*; α(M)=0.0536 *14*; α(N+..)=0.0119 *3* α(N)=0.0107 *3*; α(O)=0.00120 *3*
		183.8 *2*	100 *10*	111.79	$3/2^{(+)}$	(E2)		0.215	B(E2)(W.u.)=0.32 *9* α(K)=0.1678 *25*; α(L)=0.0373 *6*; α(M)=0.00784 *12*; α(N+..)=0.00174 *3* α(N)=0.001572 *23*; α(O)=0.000171 *3*
310.55	$11/2^{(-)}$	57.8 *1*	100	252.61	$9/2^{(-)}$	M1+E2	−0.16 *9*	4.2 *4*	α(K)=3.47 *10*; α(L)=0.59 *19*; α(M)=0.12 *4*; α(N+..)=0.028 *9* α(N)=0.025 *8*; α(O)=0.0029 *8*
335.37	$5/2^{(+)}$	223.4 *3*	6 *1*	111.79	$3/2^{(+)}$	M1+E2	+3.6 *+37−19*	0.109 *5*	α(K)=0.088 *3*; α(L)=0.0169 *15*; α(M)=0.0035 *3*; α(N+..)=0.00079 *7* α(N)=0.00071 *6*; α(O)=8.0×10^{-5} *6*
		335.1 *2*	100 *14*	0.0	$1/2^{(+)}$	E2		0.0294	α(K)=0.0244 *4*; α(L)=0.00400 *6*; α(M)=0.000826 *12*; α(N+..)=0.000187 *3* α(N)=0.0001679 *24*; α(O)=1.95×10^{-5} *3*
471.11	$3/2^{(+)}$	135.6 *3*	17 *5*	335.37	$5/2^{(+)}$				
		359.3 *3*	37 *1*	111.79	$3/2^{(+)}$				
		471.0 *2*	100 *14*	0.0	$1/2^{(+)}$	M1+E2	−0.94 *18*	0.0118 *3*	α(K)=0.0101 *3*; α(L)=0.001369 *22*; α(M)=0.000279 *5*; α(N+..)=6.44×10^{-5} *11* α(N)=5.74×10^{-5} *9*; α(O)=7.04×10^{-6} *13*
483.72	$7/2^{(+)}$	148.3[a] *3*	13 *4*	335.37	$5/2^{(+)}$	(M1+E2)		0.36 *9*	α(K)=0.29 *6*; α(L)=0.06 *3*; α(M)=0.013 *7*; α(N+..)=0.0028 *14* α(N)=0.0025 *13*; α(O)=0.00028 *12*
		187.7 *3*	1	295.89	$7/2^{(+)}$				
		371.8 *2*	100 *14*	111.79	$3/2^{(+)}$	E2		0.0213	α(K)=0.0178 *3*; α(L)=0.00282 *4*; α(M)=0.000579 *9*; α(N+..)=0.0001319 *19* α(N)=0.0001180 *17*; α(O)=1.383×10^{-5} *20*
496.99	$5/2^{(+)}$	161.7 *3*	11 *3*	335.37	$5/2^{(+)}$	(M1+E2)		0.27 *6*	α(K)=0.22 *4*; α(L)=0.043 *20*; α(M)=0.009 *5*; α(N+..)=0.0020 *9* α(N)=0.0018 *9*; α(O)=0.00020 *8*
		200.9 *3*	7 *2*	295.89	$7/2^{(+)}$				

From ENSDF

$^{125}_{54}Xe_{71}$-13

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
496.99	5/2(+)	231.3 *3*	12 *2*	265.57	7/2				
		385.2 *2*	100 *14*	111.79	3/2(+)	M1+E2	−0.12 *+8−12*	0.0214 *4*	α(K)=0.0184 *3*; α(L)=0.00236 *4*; α(M)=0.000477 *7*; α(N+..)=0.0001112 *16* α(N)=9.88×10^{-5} *15*; α(O)=1.239×10^{-5} *18*
		497.1 *3*	11 *2*	0.0	1/2(+)				
526.37	1/2(+),3/2(+)	414.6 *3*	8 *2*	111.79	3/2(+)				
		526.4 *3*	100 *16*	0.0	1/2(+)				
540.13	3/2(+)	204.6 *3*	5 *2*	335.37	5/2(+)				
		428.2 *3*	50 *8*	111.79	3/2(+)				
		540.1 *3*	100 *14*	0.0	1/2(+)	M1(+E2)	−0.03 *+7−13*	0.00921 *14*	α(K)=0.00796 *12*; α(L)=0.001002 *15*; α(M)=0.000203 *3*; α(N+..)=4.73×10^{-5} *7* α(N)=4.20×10^{-5} *6*; α(O)=5.28×10^{-6} *8*
594.09	5/2,7/2(+)	259.0 *3*	2 *1*	335.37	5/2(+)				
		482.3 *3*	100 *15*	111.79	3/2(+)				
596.77	9/2(+)	286.1 *3*	2 *1*	310.55	11/2(−)				
		300.9[a] *3*	100 *14*	295.89	7/2(+)	M1+E2	−3.76 *12*	0.0414	B(M1)(W.u.)=0.00060 *18*; B(E2)(W.u.)=65 *19* α(K)=0.0342 *5*; α(L)=0.00574 *9*; α(M)=0.001186 *18*; α(N+..)=0.000269 *4* α(N)=0.000241 *4*; α(O)=2.78×10^{-5} *4*
		344.1 *3*	5 *1*	252.61	9/2(−)	E1		0.00731 *11*	B(E1)(W.u.)=3.7×10^{-6} *12* α(K)=0.00632 *9*; α(L)=0.000792 *12*; α(M)=0.0001596 *23*; α(N+..)=3.69×10^{-5} *6* α(N)=3.29×10^{-5} *5*; α(O)=4.05×10^{-6} *6*
607.79	7/2(−)	272.4 *3*	5 *1*	335.37	5/2(+)				
		297.2 *3*	14 *2*	310.55	11/2(−)				
		342.2 *3*	10 *2*	265.57	7/2				
		355.1 *3*	100 *15*	252.61	9/2(−)				
708.39	3/2(+),5/2(+)	168.2 *3*	2 *1*	540.13	3/2(+)				
		211.2 *3*	13 *2*	496.99	5/2(+)				
		237.2 *3*	13 *3*	471.11	3/2(+)				
		372.9 *3*	64 *9*	335.37	5/2(+)				
		412.7 *3*	100 *15*	295.89	7/2(+)				
		596.8 *3*	54 *9*	111.79	3/2(+)				
		708.4 *3*	81 *12*	0.0	1/2(+)				
711.18	3/2(+)	240.1 *3*	2 *1*	471.11	3/2(+)				
		375.6 *3*	34 *5*	335.37	5/2(+)				
		599.3 *3*	100 *16*	111.79	3/2(+)				
		711.1 *3*	97 *15*	0.0	1/2(+)	M1(+E2)	+0.07 *+7−20*	0.00473 *7*	α(K)=0.00410 *6*; α(L)=0.000511 *8*; α(M)=0.0001034

From ENSDF

$^{125}_{54}Xe_{71}$-14

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
									15; α(N+..)=2.41×10^{-5} *4* α(N)=2.14×10^{-5} *3*; α(O)=2.69×10^{-6} *4*
736.85	13/2$^{(-)}$	426.4 *3*	100 *15*	310.55	11/2$^{(-)}$	M1+E2	−0.42 *+5−7*	0.0162 *3*	α(K)=0.01394 *23*; α(L)=0.00181 *3*; α(M)=0.000368 *6*; α(N+..)=8.55×10^{-5} *12* α(N)=7.60×10^{-5} *11*; α(O)=9.47×10^{-6} *14*
		484.3 *3*	29 *5*	252.61	9/2$^{(-)}$	E2		0.00982 *14*	α(K)=0.00830 *12*; α(L)=0.001214 *18*; α(M)=0.000248 *4*; α(N+..)=5.69×10^{-5} *8* α(N)=5.08×10^{-5} *8*; α(O)=6.08×10^{-6} *9*
741.42	7/2$^{(+)}$	144.6 *3*	3 *1*	596.77	9/2$^{(+)}$				
		147.3 *3*	5 *2*	594.09	5/2,7/2$^{(+)}$				
		244.4 *3*	100 *15*	496.99	5/2$^{(+)}$	(M1+E2)		0.076 *6*	α(K)=0.063 *4*; α(L)=0.0101 *24*; α(M)=0.0021 *5*; α(N+..)=0.00047 *11* α(N)=0.00042 *10*; α(O)=5.0×10^{-5} *9*
		257.8 *3*	11 *2*	483.72	7/2$^{(+)}$	M1(+E2)	−0.18 *+37−15*	0.0609 *11*	α(K)=0.0523 *8*; α(L)=0.0068 *3*; α(M)=0.00139 *6*; α(N+..)=0.000324 *12* α(N)=0.000288 *11*; α(O)=3.59×10^{-5} *11*
		445.5 *3*	57 *8*	295.89	7/2$^{(+)}$	M1+E2	+0.38 *+13−12*	0.0145 *3*	α(K)=0.0125 *3*; α(L)=0.001618 *24*; α(M)=0.000328 *5*; α(N+..)=7.63×10^{-5} *11* α(N)=6.78×10^{-5} *10*; α(O)=8.46×10^{-6} *14*
		475.7 *3*	13 *3*	265.57	7/2				
		488.8 *3*	78 *12*	252.61	9/2$^{(-)}$	E1		0.00310 *5*	α(K)=0.00269 *4*; α(L)=0.000333 *5*; α(M)=6.70×10^{-5} *10*; α(N+..)=1.555×10^{-5} *22* α(N)=1.383×10^{-5} *20*; α(O)=1.717×10^{-6} *25*
762.32	(5/2$^-$)	154.5 *3*	72 *22*	607.79	7/2$^{(-)}$				
		278.5[b] *3*		483.72	7/2$^{(+)}$				
		291.3[b] *3*	7 *2*	471.11	3/2$^{(+)}$				
		496.9 *3*	100 *16*	265.57	7/2				
		509.7[a] *3*	83 *14*	252.61	9/2$^{(-)}$				
765.66	3/2,5/2$^{(+)}$	225.4[b] *3*	7 *2*	540.13	3/2$^{(+)}$				
		268.7[b] *3*		496.99	5/2$^{(+)}$				
		294.5 *3*	7 *2*	471.11	3/2$^{(+)}$				
		430.2[b] *3*	9 *2*	335.37	5/2$^{(+)}$				
		500.1 *3*	100 *15*	265.57	7/2				
		653.7 *3*	19 *4*	111.79	3/2$^{(+)}$				
		765.7 *3*	47 *8*	0.0	1/2$^{(+)}$				
796.63	15/2$^{(-)}$	59.7 *3*	0.8 *2*	736.85	13/2$^{(-)}$				
		486.0 *3*	100 *14*	310.55	11/2$^{(-)}$	E2		0.00972 *14*	B(E2)(W.u.)=64 *15* α(K)=0.00822 *12*; α(L)=0.001201 *17*; α(M)=0.000246

From ENSDF

$^{125}_{54}Xe_{71}$-15

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
									4; α(N+..)=5.63×10^{-5} *8* α(N)=5.03×10^{-5} *8*; α(O)=6.02×10^{-6} *9*
837.34	9/2$^{(+)}$	229.5 *3*		607.79	7/2$^{(-)}$				
		240.5 *3*	2 *1*	596.77	9/2$^{(+)}$				
		353.4 *3*	9 *2*	483.72	7/2$^{(+)}$				
		501.8 *2*	100 *15*	335.37	5/2$^{(+)}$	E2		0.00889 *13*	α(K)=0.00753 *11*; α(L)=0.001091 *16*; α(M)=0.000223 *4*; α(N+..)=5.11×10^{-5} *8* α(N)=4.57×10^{-5} *7*; α(O)=5.48×10^{-6} *8*
870.62	11/2$^{(+)}$	273.8 *3*	6 *1*	596.77	9/2$^{(+)}$	(M1+E2)		0.0540 *24*	α(K)=0.0453 *10*; α(L)=0.0070 *13*; α(M)=0.0014 *3*; α(N+..)=0.00033 *6* α(N)=0.00029 *6*; α(O)=3.5×10^{-5} *5*
		386.9 *3*	2 *1*	483.72	7/2$^{(+)}$				
		574.8 *2*	100 *14*	295.89	7/2$^{(+)}$	E2		0.00614 *9*	B(E2)(W.u.)=29 *7* α(K)=0.00523 *8*; α(L)=0.000734 *11*; α(M)=0.0001497 *21*; α(N+..)=3.44×10^{-5} *5* α(N)=3.07×10^{-5} *5*; α(O)=3.72×10^{-6} *6*
886.96	9/2,11/2$^{(-)}$	279.1 *3*	45 *9*	607.79	7/2$^{(-)}$				
		576.4 *3*	100 *17*	310.55	11/2$^{(-)}$				
		634.3 *3*	36 *8*	252.61	9/2$^{(-)}$				
889.34	7/2$^{(+)}$	292.6[b] *3*		596.77	9/2$^{(+)}$				
		295.3 *3*		594.09	5/2,7/2$^{(+)}$				
		392.4 *3*		496.99	5/2$^{(+)}$				
		405.9 *2*	100 *15*	483.72	7/2$^{(+)}$	D+Q			
		418.1 *3*		471.11	3/2$^{(+)}$				
		554.0 *3*	80 *12*	335.37	5/2$^{(+)}$				
		593.3 *3*	35 *6*	295.89	7/2$^{(+)}$				
		623.9[b] *3*	34 *6*	265.57	7/2				
		777.3 *3*	42 *8*	111.79	3/2$^{(+)}$				
893.51	13/2$^{(-)}$	582.9 *3*	94 *14*	310.55	11/2$^{(-)}$	M1+E2	+21 *+4−3*	0.00592 *9*	α(K)=0.00504 *7*; α(L)=0.000706 *10*; α(M)=0.0001439 *21*; α(N+..)=3.31×10^{-5} *5* α(N)=2.95×10^{-5} *5*; α(O)=3.58×10^{-6} *5*
		640.9 *3*	100 *14*	252.61	9/2$^{(-)}$	E2		0.00463 *7*	α(K)=0.00395 *6*; α(L)=0.000542 *8*; α(M)=0.0001104 *16*; α(N+..)=2.55×10^{-5} *4* α(N)=2.27×10^{-5} *4*; α(O)=2.76×10^{-6} *4*
896.03	5/2$^{(-)}$	355.7[ab] *3*		540.13	3/2$^{(+)}$				
		399.2 *3*		496.99	5/2$^{(+)}$				
		412.1 *3*		483.72	7/2$^{(+)}$				
		424.9 *3*		471.11	3/2$^{(+)}$	E1(+M2)	−0.03 *+10−26*	0.004 *5*	α(K)=0.004 *4*; α(L)=0.0005 *6*; α(M)=0.00010 *11*;

From ENSDF

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
									α(N+..)=2.2×10^{-5} *25* α(N)=2.0×10^{-5} *22*; α(O)=2.E−6 *3*
896.03	5/2$^{(-)}$	560.9[a] *3*		335.37	5/2$^{(+)}$				
		784.2[a] *3*	100 *22*	111.79	3/2$^{(+)}$				
919.85	11/2	610		310.55	11/2$^{(-)}$				E_γ: From ^{48}Ca(^{82}Se,5nγ).
		654.3 *3*	100 *17*	265.57	7/2	Q			
		667.4 *3*	31 *6*	252.61	9/2$^{(-)}$				
932.76	3/2$^{(+)}$,5/2,7/2$^{(+)}$	392.5[a] *3*		540.13	3/2$^{(+)}$				
		435.6 *3*		496.99	5/2$^{(+)}$				
		449.1 *3*		483.72	7/2$^{(+)}$				
		461.7 *3*		471.11	3/2$^{(+)}$				
		597.7 *3*	100 *22*	335.37	5/2$^{(+)}$				
946.24	5/2$^{(+)}$,7/2$^{(+)}$	204.7 *3*	32 *6*	741.42	7/2$^{(+)}$				
		238.0 *3*	13 *3*	708.39	3/2$^{(+)}$,5/2$^{(+)}$				
		338.4[b] *3*	40 *7*	607.79	7/2$^{(-)}$				
		349.4 *3*	88 *15*	596.77	9/2$^{(+)}$				
		352.2 *3*	100 *16*	594.09	5/2,7/2$^{(+)}$				
		406.2 *3*	97 *16*	540.13	3/2$^{(+)}$				
		449.2 *3*	78 *12*	496.99	5/2$^{(+)}$				
		462.6 *3*	34 *6*	483.72	7/2$^{(+)}$				
		475.2 *3*	15 *3*	471.11	3/2$^{(+)}$				
		610.8 *3*	84 *12*	335.37	5/2$^{(+)}$				
969.15	7/2$^{(+)}$	131.9 *3*	4 *2*	837.34	9/2$^{(+)}$				
		375.1 *3*	26 *4*	594.09	5/2,7/2$^{(+)}$				
		429.0 *3*	13 *2*	540.13	3/2$^{(+)}$				
		485.3 *3*	33 *5*	483.72	7/2$^{(+)}$				
		498.1 *3*	85 *13*	471.11	3/2$^{(+)}$				
		633.8 *3*	100 *16*	335.37	5/2$^{(+)}$				
		857.2 *3*	14 *3*	111.79	3/2$^{(+)}$				
987.56		393.6 *3*		594.09	5/2,7/2$^{(+)}$				
		447.4 *3*		540.13	3/2$^{(+)}$				
		490.4 *3*		496.99	5/2$^{(+)}$				
		652.2 *3*		335.37	5/2$^{(+)}$				
		875.8 *3*		111.79	3/2$^{(+)}$				
1019.06	9/2$^{(+)}$	277.6[a] *3*	100 *15*	741.42	7/2$^{(+)}$	M1+E2	−0.26 *+6−9*	0.0501 *8*	α(K)=0.0430 *7*; α(L)=0.00568 *14*; α(M)=0.00115 *3*; α(N+..)=0.000268 *6* α(N)=0.000238 *6*; α(O)=2.96×10^{-5} *6*
		422.3 *3*	23 *4*	596.77	9/2$^{(+)}$	M1(+E2)	−0.13 *+20−12*	0.0169 *3*	α(K)=0.01461 *23*; α(L)=0.00186 *3*;

From ENSDF

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
									α(M)=0.000377 *6*; α(N+..)=8.78×10^{-5} *13* α(N)=7.80×10^{-5} *11*; α(O)=9.78×10^{-6} *14*
1019.06	9/2$^{(+)}$	522.1 *3*	79 *11*	496.99	5/2$^{(+)}$	E2		0.00797 *12*	α(K)=0.00675 *10*; α(L)=0.000969 *14*; α(M)=0.000198 *3*; α(N+..)=4.55×10^{-5} *7* α(N)=4.06×10^{-5} *6*; α(O)=4.88×10^{-6} *7*
		535.5 *3*	13 *2*	483.72	7/2$^{(+)}$				
		683.7 *3*	18 *3*	335.37	5/2$^{(+)}$				
		708.5 *3*	55 *9*	310.55	11/2$^{(-)}$				
1024.44	(11/2$^-$)	287.5 *3*		736.85	13/2$^{(-)}$				
		416.6 *3*	9 *2*	607.79	7/2$^{(-)}$				
		713.8 *3*	19 *4*	310.55	11/2$^{(-)}$				
		771.8 *3*	100 *16*	252.61	9/2$^{(-)}$				
1030.28	11/2$^{(+)}$	192.9 *3*	3 *1*	837.34	9/2$^{(+)}$				
		433.4 *3*	2 *1*	596.77	9/2$^{(+)}$				
		546.5[a] *3*	100 *14*	483.72	7/2$^{(+)}$	Q			
1063.93		456.1 *3*		607.79	7/2$^{(-)}$				
		467.2 *3*		596.77	9/2$^{(+)}$				
1077.10		314.7 *3*		762.32	(5/2$^-$)				
		469.4 *3*		607.79	7/2$^{(-)}$				
1103.79	(9/2,11/2$^+$)	266.3 *3*		837.34	9/2$^{(+)}$				
		362.2 *3*		741.42	7/2$^{(+)}$				
		509.7[a] *3*	58 *10*	594.09	5/2,7/2$^{(+)}$				
		619.9 *3*	100 *14*	483.72	7/2$^{(+)}$				
		808.0 *3*		295.89	7/2$^{(+)}$				
1121.1		524.3 *3*		596.77	9/2$^{(+)}$				
1126.36		417.9 *3*		708.39	3/2$^{(+)}$,5/2$^{(+)}$				
		600.0 *3*		526.37	1/2$^{(+)}$,3/2$^{(+)}$				
		655.3 *3*		471.11	3/2$^{(+)}$				
		791.0 *3*		335.37	5/2$^{(+)}$				
1137.6		341.0 *3*		796.63	15/2$^{(-)}$				
1141.14	3/2$^{(+)}$,5/2,7/2$^{(+)}$	429.7 *3*		711.18	3/2$^{(+)}$				
		657.4 *3*	100 *15*	483.72	7/2$^{(+)}$				
		805.8 *3*	64 *12*	335.37	5/2$^{(+)}$				
1161.81	5/2$^{(+)}$	229.3 *3*		932.76	3/2$^{(+)}$,5/2,7/2$^{(+)}$				
		272.3[b] *3*		889.34	7/2$^{(+)}$				
		450.5 *3*		711.18	3/2$^{(+)}$				
		635.4 *3*		526.37	1/2$^{(+)}$,3/2$^{(+)}$				
		690.7 *3*		471.11	3/2$^{(+)}$	M1+E2	+0.13 *3*	0.00506 *8*	α(K)=0.00438 *7*; α(L)=0.000547 *8*;

From ENSDF

$^{125}_{54}Xe_{71}$-18

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
									α(M)=0.0001107 *16*; α(N+..)=2.58×10^{-5} *4* α(N)=2.29×10^{-5} *4*; α(O)=2.88×10^{-6} *4*
1161.81	5/2$^{(+)}$	1050.1 *3*		111.79	3/2$^{(+)}$				
1171.70		674.6[a] *3*		496.99	5/2$^{(+)}$				
		700.7 *3*		471.11	3/2$^{(+)}$				
		836.3[ab] *3*		335.37	5/2$^{(+)}$				
1193.12	7/2$^{(+)}$,9/2$^{(+)}$	303.8 *3*		889.34	7/2$^{(+)}$				
		355.7[a] *3*	23 *5*	837.34	9/2$^{(+)}$				
		484.8 *3*	100 *16*	708.39	3/2$^{(+)}$,5/2$^{(+)}$				
		585.3 *3*	4 *2*	607.79	7/2$^{(-)}$				
		596.6 *3*		596.77	9/2$^{(+)}$				
		709.2 *3*	29 *6*	483.72	7/2$^{(+)}$				
		927.5 *3*		265.57	7/2				
		940.5 *3*		252.61	9/2$^{(-)}$				
1209.93	13/2$^{(+)}$	339.3 *3*	6 *2*	870.62	11/2$^{(+)}$	M1+E2		0.0290 *8*	α(K)=0.0245 *11*; α(L)=0.0036 *3*; α(M)=0.00073 *7*; α(N+..)=0.000167 *13* α(N)=0.000149 *12*; α(O)=1.79×10^{-5} *8*
		613.2 *3*	100 *14*	596.77	9/2$^{(+)}$	E2		0.00519 *8*	B(E2)(W.u.)=57 *23* α(K)=0.00442 *7*; α(L)=0.000612 *9*; α(M)=0.0001247 *18*; α(N+..)=2.87×10^{-5} *4* α(N)=2.56×10^{-5} *4*; α(O)=3.11×10^{-6} *5*
1217.17	5/2$^{(+)}$	623.0 *3*		594.09	5/2,7/2$^{(+)}$				
		746.0 *3*		471.11	3/2$^{(+)}$				
		881.9 *3*		335.37	5/2$^{(+)}$				
		1105.4 *3*		111.79	3/2$^{(+)}$	M1(+E2)	−0.05 +*8*−*15*	0.00170 *3*	α(K)=0.001475 *25*; α(L)=0.000182 *3*; α(M)=3.67×10^{-5} *6*; α(N+..)=9.03×10^{-6} *15* α(N)=7.60×10^{-6} *13*; α(O)=9.58×10^{-7} *16*; α(IPF)=4.70×10^{-7} *9*
1245.44	(9/2$^-$,11/2,13/2$^-$)	352.0[b] *3*		893.51	13/2$^{(-)}$				
		358.2 *3*	17 *4*	886.96	9/2,11/2$^{(-)}$				
		508.6 *3*	62 *11*	736.85	13/2$^{(-)}$				
		935.0 *3*	55 *9*	310.55	11/2$^{(-)}$				
		992.9 *3*	100 *17*	252.61	9/2$^{(-)}$				
1246.8		509.8 *3*		736.85	13/2$^{(-)}$				
1247.74	11/2	377.0 *3*	30 *6*	870.62	11/2$^{(+)}$				
		650.9 *3*	80 *13*	596.77	9/2$^{(+)}$				
		952.0 *3*	100 *17*	295.89	7/2$^{(+)}$				
1263.60		522.4 *3*		741.42	7/2$^{(+)}$				

From ENSDF

$^{125}_{54}Xe_{71}$-19

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
1263.60		792.4 *3*		471.11	$3/2^{(+)}$				
		928.1 *3*		335.37	$5/2^{(+)}$				
1281.69		516.0 *3*		765.66	$3/2,5/2^{(+)}$				
		519.4 *3*		762.32	$(5/2^-)$				
		674.0 *3*		607.79	$7/2^{(-)}$				
		946.2 *3*		335.37	$5/2^{(+)}$				
1287.77		761.4 *3*		526.37	$1/2^{(+)},3/2^{(+)}$				
		790.9 *3*		496.99	$5/2^{(+)}$				
		816.5 *3*		471.11	$3/2^{(+)}$				
		952.4 *3*		335.37	$5/2^{(+)}$				
1307.2		598.8 *3*		708.39	$3/2^{(+)},5/2^{(+)}$				
1310.15	$15/2^{(-)}$	416.7 *3*	29 *5*	893.51	$13/2^{(-)}$	M1+E2	−1.5 *5*	0.0159 *6*	α(K)=0.0135 *5*; α(L)=0.00194 *3*; α(M)=0.000396 *6*; α(N+..)=9.09×10^{-5} *13* α(N)=8.11×10^{-5} *12*; α(O)=9.77×10^{-6} *17* ^{48}Ca(^{82}Se,5nγ) placed this γ from 1307 keV level.
		513.5 *3*	22 *4*	796.63	$15/2^{(-)}$	M1+E2	−4.4 *+14−18*	0.00844 *16*	α(K)=0.00716 *15*; α(L)=0.001024 *16*; α(M)=0.000209 *4*; α(N+..)=4.80×10^{-5} *8* α(N)=4.29×10^{-5} *7*; α(O)=5.16×10^{-6} *9*
		573.3 *3*	100 *15*	736.85	$13/2^{(-)}$	M1+E2	−1.4 *1*	0.00679 *12*	α(K)=0.00581 *10*; α(L)=0.000782 *12*; α(M)=0.0001590 *24*; α(N+..)=3.68×10^{-5} α(N)=3.27×10^{-5} *5*; α(O)=4.02×10^{-6} *7*
1310.2	$(15/2^-)$	417		893.51	$13/2^{(-)}$				From ^{48}Ca(^{82}Se,5nγ).
1311.4	1/2,3/2	1200 *1*	86	111.79	$3/2^{(+)}$				
		1311 *1*	100	0.0	$1/2^{(+)}$				
1312.21	3/2,5/2,7/2	549.9 *3*		762.32	$(5/2^-)$				
		704.4 *3*		607.79	$7/2^{(-)}$				
		815.2 *3*		496.99	$5/2^{(+)}$				
		841.1 *3*		471.11	$3/2^{(+)}$				
1315.81	$(11/2^+)$	296.8 *3*	94 *16*	1019.06	$9/2^{(+)}$	D+Q			
		445.2 *3*	14 *4*	870.62	$11/2^{(+)}$				
		478.4 *3*		837.34	$9/2^{(+)}$				
		574.4 *3*	69 *15*	741.42	$7/2^{(+)}$	Q		0.00622	α(K)=0.00524; α(L)=0.00073
		578.9 *3*		736.85	$13/2^{(-)}$				
		718.9 *3*	85 *15*	596.77	$9/2^{(+)}$				
		1063.1 *3*	100 *19*	252.61	$9/2^{(-)}$				
1321.07		609.7 *3*		711.18	$3/2^{(+)}$				
		794.7 *3*		526.37	$1/2^{(+)},3/2^{(+)}$				
		850.0 *3*		471.11	$3/2^{(+)}$				

From ENSDF

$^{125}_{54}Xe_{71}$-20

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]
1321.07		1209.4 *3*		111.79	$3/2^{(+)}$		
1324.9	1/2,3/2	1212 *1*	100	111.79	$3/2^{(+)}$		
		1326 *1*	27	0.0	$1/2^{(+)}$		
1327.0		843.1 *3*		483.72	$7/2^{(+)}$		
1330.88	$3/2^{(+)}$,5/2,$7/2^{(+)}$	619.8 *3*		711.18	$3/2^{(+)}$		
		846.9 *3*		483.72	$7/2^{(+)}$		
		859.7 *3*		471.11	$3/2^{(+)}$		
		995.5 *3*		335.37	$5/2^{(+)}$		
		1219.3 *3*		111.79	$3/2^{(+)}$		
1341.21	$(9/2^-,11/2,13/2^-)$	604.3 *3*	74 *14*	736.85	$13/2^{(-)}$		
		1088.4 *3*	100 *20*	252.61	$9/2^{(-)}$		
1359.64	3/2,5/2,7/2	593.9 *3*		765.66	$3/2,5/2^{(+)}$		
		597.6 *3*		762.32	$(5/2^-)$		
		751.9 *3*		607.79	$7/2^{(-)}$		
		1024.0[b] *3*		335.37	$5/2^{(+)}$		
1370.28	$5/2^{(+)}$,$7/2^{(+)}$	533.0 *3*		837.34	$9/2^{(+)}$		
		628.7 *3*		741.42	$7/2^{(+)}$		
		773.4 *3*		596.77	$9/2^{(+)}$		
		776.3 *3*		594.09	$5/2,7/2^{(+)}$		
		830.2 *3*		540.13	$3/2^{(+)}$		
		886.6 *3*		483.72	$7/2^{(+)}$		
1379.95	$7/2,9/2^{(+)}$	349.6 *3*		1030.28	$11/2^{(+)}$		
		447.1 *3*		932.76	$3/2^{(+)},5/2,7/2^{(+)}$		
		542.7 *3*		837.34	$9/2^{(+)}$		
		783.1 *3*		596.77	$9/2^{(+)}$		
		786.0 *3*		594.09	$5/2,7/2^{(+)}$		
		883.0 *3*		496.99	$5/2^{(+)}$		
		896.2 *3*		483.72	$7/2^{(+)}$		
1387.92	17/2	591.3 *3*	92 *15*	796.63	$15/2^{(-)}$	D+Q	−0.8 *1*
		651.1 *3*	100 *15*	736.85	$13/2^{(-)}$	Q	
1395.60	$11/2^{(-)}$,13/2,15/2	371.1 *3*	29 *3*	1024.44	$(11/2^-)$		
		475.7 *3*	13 *2*	919.85	11/2		
		502.1[b] *3*		893.51	$13/2^{(-)}$		
		599.1 *3*	100 *10*	796.63	$15/2^{(-)}$		
		658.9 *3*		736.85	$13/2^{(-)}$		
1399.29		430.1[a] *3*		969.15	$7/2^{(+)}$		
		915.6 *3*		483.72	$7/2^{(+)}$		
1403.86	$5/2^{(+)}$,$7/2,9/2^{(+)}$	566.3 *3*		837.34	$9/2^{(+)}$		

From ENSDF

$^{125}_{54}Xe_{71}$-21

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
1403.86	5/2(+),7/2,9/2(+)	809.9 *3*		594.09	5/2,7/2(+)				
		920.3 *3*		483.72	7/2(+)				
		1068.4 *3*		335.37	5/2(+)				
1416.08	5/2(+)	674.6[a] *3*		741.42	7/2(+)				
		808.4 *3*		607.79	7/2(−)				
		945.0 *3*		471.11	3/2(+)				
		1304.2 *3*		111.79	3/2(+)	M1+E2	−2.7 *4*	0.000981 *17*	α(K)=0.000829 *15*; α(L)=0.0001033 *18*; α(M)=2.09×10^{-5} *4*; α(N+..)=2.76×10^{-5} α(N)=4.31×10^{-6} *8*; α(O)=5.39×10^{-7} *10*; α(IPF)=2.27×10^{-5} *4*
1425.3		817.5 *3*		607.79	7/2(−)				
1438.93	11/2(+)	229.2 *3*		1209.93	13/2(+)				
		408.6 *3*	29 *6*	1030.28	11/2(+)	M1+E2	+0.29 *+25−23*	0.0183 *5*	α(K)=0.0157 *5*; α(L)=0.00203 *3*; α(M)=0.000411 *7*; α(N+..)=9.56×10^{-5} *14* α(N)=8.50×10^{-5} *13*; α(O)=1.062×10^{-5} *17*
		549.5 *3*	100 *17*	889.34	7/2(+)				
		601.5 *3*	45 *9*	837.34	9/2(+)				
		842.2 *3*		596.77	9/2(+)	M1+E2	−4.8 *12*	0.00242 *5*	α(K)=0.00208 *4*; α(L)=0.000272 *5*; α(M)=5.51×10^{-5} *9*; α(N+..)=1.276×10^{-5} *21* α(N)=1.135×10^{-5} *19*; α(O)=1.401×10^{-6} *24*
1441.16	19/2(−)	644.7 *3*	100	796.63	15/2(−)	E2		0.00456 *7*	B(E2)(W.u.)>46 α(K)=0.00389 *6*; α(L)=0.000534 *8*; α(M)=0.0001087 *16*; α(N+..)=2.51×10^{-5} *4* α(N)=2.23×10^{-5} *4*; α(O)=2.72×10^{-6} *4*
1473.9		580.3 *3*		893.51	13/2(−)				
		587.1[b] *3*		886.96	9/2,11/2(−)				
1477.41		736.0[a] *3*		741.42	7/2(+)				
		993.6 *3*		483.72	7/2(+)				
		1142.1 *3*		335.37	5/2(+)				
1480.71	13/2(+)	450.5 *3*	6 *1*	1030.28	11/2(+)				
		643.3 *3*	100 *10*	837.34	9/2(+)	E2		0.00458 *7*	α(K)=0.00391 *6*; α(L)=0.000537 *8*; α(M)=0.0001093 *16*; α(N+..)=2.52×10^{-5} *4* α(N)=2.25×10^{-5} *4*; α(O)=2.73×10^{-6} *4*
		684.2 *3*	18 *2*	796.63	15/2(−)				
		1170.2 *3*	31 *3*	310.55	11/2(−)				
1489.91	3/2(+),5/2,7/2	896.0 *3*		594.09	5/2,7/2(+)				
		1006.2 *3*		483.72	7/2(+)				

From ENSDF

$^{125}_{54}Xe_{71}$-22

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
1489.91	3/2(+),5/2,7/2	1018.8 *3*		471.11	3/2(+)				
		1154.3 *3*		335.37	5/2(+)				
1492.60		388.7 *3*		1103.79	(9/2,11/2+)				
		473.5 *3*		1019.06	9/2(+)				
		546.5[a] *3*		946.24	5/2(+),7/2(+)				
		655.2 *3*		837.34	9/2(+)				
		895.9 *3*		596.77	9/2(+)				
1494.7		997.7 *3*		496.99	5/2(+)				
1510.31		673.2 *3*		837.34	9/2(+)				
		913.4 *3*		596.77	9/2(+)				
		915.9 *3*		594.09	5/2,7/2(+)				
		1026.8 *3*		483.72	7/2(+)				
1536.24	15/2(+)	326.3 *3*	2 *1*	1209.93	13/2(+)	D+Q			
		505.8 *3*	2 *1*	1030.28	11/2(+)				
		665.6 *3*	100 *10*	870.62	11/2(+)	E2		0.00421 *6*	B(E2)(W.u.)=43 *17* α(K)=0.00359 *5*; α(L)=0.000490 *7*; α(M)=9.97×10^{-5} *14*; α(N+..)=2.30×10^{-5} *4* α(N)=2.05×10^{-5} *3*; α(O)=2.50×10^{-6} *4*
1537.96	7/2(+)	700.6 *3*		837.34	9/2(+)				
		1202.6 *3*		335.37	5/2(+)	M1+E2	−0.6 *+3−5*	0.00133 *9*	α(K)=0.00115 *8*; α(L)=0.000142 *9*; α(M)=2.86×10^{-5} *18*; α(N+..)=1.31×10^{-5} *4* α(N)=5.9×10^{-6} *4*; α(O)=7.5×10^{-7} *5*; α(IPF)=6.46×10^{-6} *17*
1573.34	(13/2)	232.0 *3*	11 *2*	1341.21	(9/2−,11/2,13/2−)				
		263.4 *3*	20 *3*	1310.15	15/2(−)				
		327.9 *3*	24 *3*	1245.44	(9/2−,11/2,13/2−)				
		653.6 *3*	56 *20*	919.85	11/2				
		686.5 *3*	100 *10*	886.96	9/2,11/2(−)				
		836.3[ab] *3*		736.85	13/2(−)	D+Q	+0.6 *+3−4*		
1578.59	5/2(+),7/2(+)	870.2 *3*		708.39	3/2(+),5/2(+)	M1+E2	+14 *+33−11*	0.00221 *8*	α(K)=0.00190 *7*; α(L)=0.000248 *8*; α(M)=5.04×10^{-5} *15*; α(N+..)=1.17×10^{-5} *4* α(N)=1.04×10^{-5} *4*; α(O)=1.28×10^{-6} *5*
		984.5 *3*		594.09	5/2,7/2(+)				
1579.4	1/2,3/2	1468 *1*	94	111.79	3/2(+)				
		1579 *1*	100	0.0	1/2(+)				
1579.92	17/2(−)	269.8 *3*	5 *1*	1310.15	15/2(−)				
		686.4 *3*	100 *10*	893.51	13/2(−)	(E2)		0.00389 *6*	α(K)=0.00333 *5*; α(L)=0.000451 *7*; α(M)=9.18×10^{-5} *13*; α(N+..)=2.12×10^{-5} *3* α(N)=1.89×10^{-5} *3*; α(O)=2.31×10^{-6} *4*

From ENSDF

$^{125}_{54}Xe_{71}$-23

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
1579.92	17/2$^{(-)}$	783.4 *3*	26 *3*	796.63	15/2$^{(-)}$	(D+Q)			
1580.13		1040.0 *3*		540.13	3/2$^{(+)}$				
		1109.0 *3*		471.11	3/2$^{(+)}$				
1585.53	(15/2)	560.9[a] *3*	31 *8*	1024.44	(11/2$^-$)				
		665.9 *3*	52 *11*	919.85	11/2				
		691.9 *3*	62 *13*	893.51	13/2$^{(-)}$				
		789.0 *3*		796.63	15/2$^{(-)}$				
		848.5 *3*	100 *21*	736.85	13/2$^{(-)}$				
1600.09	(11/2)	569.6 *3*		1030.28	11/2$^{(+)}$				
		630.9 *3*	100 *22*	969.15	7/2$^{(+)}$				
		763.0 *3*		837.34	9/2$^{(+)}$				
1601.84		836.3[a] *3*		765.66	3/2,5/2$^{(+)}$				
		839.4 *3*		762.32	(5/2$^-$)				
1603.8		1492.0 *3*		111.79	3/2$^{(+)}$				
1606.09	5/2$^{(+)}$,7/2,9/2$^{(+)}$	673.3 *3*		932.76	3/2$^{(+)}$,5/2,7/2$^{(+)}$				
		1009.2 *3*		596.77	9/2$^{(+)}$				
		1122.3 *3*		483.72	7/2$^{(+)}$				
		1270.9 *3*		335.37	5/2$^{(+)}$				
1617.50		851.8 *3*		765.66	3/2,5/2$^{(+)}$				
		855.3 *3*		762.32	(5/2$^-$)				
		1023.5 *3*		594.09	5/2,7/2$^{(+)}$				
		1146.2 *3*		471.11	3/2$^{(+)}$				
1624.97		735.7 *3*		889.34	7/2$^{(+)}$				
		883.6 *3*		741.42	7/2$^{(+)}$				
		916.3 *3*		708.39	3/2$^{(+)}$,5/2$^{(+)}$				
		1141.4 *3*		483.72	7/2$^{(+)}$				
1628.06	7/2$^{(+)}$	300.9[a] *3*		1327.0					
		1131.1 *3*		496.99	5/2$^{(+)}$				
		1292.8 *3*		335.37	5/2$^{(+)}$	M1+E2	−0.24 *+17−53*	0.00120 *9*	α(K)=0.00103 *8*; α(L)=0.000126 *9*; α(M)=2.55×10^{-5} *17*; α(N+..)=2.55×10^{-5} *4* α(N)=5.3×10^{-6} *4*; α(O)=6.7×10^{-7} *5*; α(IPF)=1.95×10^{-5} *5*
1640.18	11/2$^{(-)}$,13/2$^{(+)}$	324.2 *3*		1315.81	(11/2$^+$)				
		392.5[a] *3*		1247.74	11/2				
		430.1[a] *3*		1209.93	13/2$^{(+)}$				
		621.1 *3*		1019.06	9/2$^{(+)}$				
		746.6 *3*		893.51	13/2$^{(-)}$				

From ENSDF

$^{125}_{54}Xe_{71}$-24

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
1640.18	11/2(−),13/2(+)	769.7 *3*		870.62	11/2(+)				
		843.6 *3*		796.63	15/2(−)				
		1043.5 *3*		596.77	9/2(+)				
1647.73		1121.4 *3*		526.37	1/2(+),3/2(+)				
		1312.3 *3*		335.37	5/2(+)				
1648.9		1151.9[a] *3*		496.99	5/2(+)				
1659.69	15/2	635.2 *3*	42 *5*	1024.44	(11/2−)	(E2)		0.00474 *7*	α(K)=0.00404 *6*; α(L)=0.000556 *8*; α(M)=0.0001132 *16*; α(N+..)=2.61×10^{-5} *4* α(N)=2.33×10^{-5} *4*; α(O)=2.83×10^{-6} *4*
		739.7 *3*	100 *10*	919.85	11/2	E2		0.00324 *5*	α(K)=0.00278 *4*; α(L)=0.000371 *6*; α(M)=7.55×10^{-5} *11*; α(N+..)=1.744×10^{-5} *25* α(N)=1.553×10^{-5} *22*; α(O)=1.90×10^{-6} *3*
		766.0 *3*	48 *6*	893.51	13/2(−)				
		863.3 *3*	10 *10*	796.63	15/2(−)				
		922.8 *3*	50 *6*	736.85	13/2(−)	(M1+E2)	−0.19 +*2*−*27*	0.00255 *10*	α(K)=0.00221 *9*; α(L)=0.000274 *10*; α(M)=5.53×10^{-5} *19*; α(N+..)=1.29×10^{-5} *5* α(N)=1.15×10^{-5} *4*; α(O)=1.44×10^{-6} *6*
1668.67	3/2(+),5/2,7/2(+)	1184.8 *3*		483.72	7/2(+)				
		1557.0 *3*		111.79	3/2(+)				
1678.87	7/2(+),9/2,11/2(+)	537.5 *3*		1141.14	3/2(+),5/2,7/2(+)				
		648.5 *3*		1030.28	11/2(+)				
		841.3 *3*		837.34	9/2(+)				
		1082.4 *3*		596.77	9/2(+)				
		1195.4 *3*		483.72	7/2(+)				
1684.46		922.0 *3*		762.32	(5/2−)				
		1076.8 *3*		607.79	7/2(−)				
1687.93		372.0 *3*		1315.81	(11/2+)				
		669.0 *3*		1019.06	9/2(+)				
		817.3 *3*		870.62	11/2(+)				
1688.34		440.5[b] *3*		1247.74	11/2				
		922.4 *3*		765.66	3/2,5/2(+)				
		926.1 *3*		762.32	(5/2−)				
		1080.5 *3*		607.79	7/2(−)				
		1353.3 *3*		335.37	5/2(+)				
1690.46	5/2(+),7/2(+)	979.4 *3*		711.18	3/2(+)				

From ENSDF

$^{125}_{54}Xe_{71}$-25

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	α[&]	Comments
1690.46	5/2$^{(+)}$,7/2$^{(+)}$	982.2 *3*		708.39	3/2$^{(+)}$,5/2$^{(+)}$			
		1093.7 *3*		596.77	9/2$^{(+)}$			
		1096.1[a] *3*		594.09	5/2,7/2$^{(+)}$			
1698.3	1/2,3/2	1158 *1*	100	540.13	3/2$^{(+)}$			
		1587[‡b] *1*		111.79	3/2$^{(+)}$			
		1698 *1*	64	0.0	1/2$^{(+)}$			
1714.0		794.2 *3*		919.85	11/2			
		827.0 *3*		886.96	9/2,11/2$^{(-)}$			
1716.57		796.8 *3*		919.85	11/2			
		822.8 *3*		893.51	13/2$^{(-)}$			
		979.9 *3*		736.85	13/2$^{(-)}$			
1718.61	15/2	688.4 *3*	100	1030.28	11/2$^{(+)}$	Q		
1723.58		961.2 *3*		762.32	(5/2$^-$)			
		1115.8 *3*		607.79	7/2$^{(-)}$			
		1239.9 *3*		483.72	7/2$^{(+)}$			
1739.6		635.6 *3*	90 *10*	1103.79	(9/2,11/2$^+$)			
		709.6 *3*	100 *20*	1030.28	11/2$^{(+)}$			
1752.91	7/2,9/2,11/2$^{(+)}$	722.7 *3*		1030.28	11/2$^{(+)}$			
		1269.1 *3*		483.72	7/2$^{(+)}$			
1759.93		872.9 *3*		886.96	9/2,11/2$^{(-)}$			
		922.6 *3*		837.34	9/2$^{(+)}$			
		1151.9[a] *3*		607.79	7/2$^{(-)}$			
		1276.5 *3*		483.72	7/2$^{(+)}$			
1804.71		1196.9 *3*		607.79	7/2$^{(-)}$			
		1210.6 *3*		594.09	5/2,7/2$^{(+)}$			
		1321.0 *3*		483.72	7/2$^{(+)}$			
1808.7		615.6 *3*		1193.12	7/2$^{(+)}$,9/2$^{(+)}$			
1825.94		936.5 *3*		889.34	7/2$^{(+)}$			
		1084.6 *3*		741.42	7/2$^{(+)}$			
1826.27	(15/2)	438.5 *3*	36 *4*	1387.92	17/2			
		1029.4 *3*	41 *5*	796.63	15/2$^{(-)}$			
		1089.5 *3*	100 *11*	736.85	13/2$^{(-)}$			
1832.87	(9/2$^-$,11/2,13/2$^+$)	1096.1[a] *3*		736.85	13/2$^{(-)}$			
		1236.0 *3*		596.77	9/2$^{(+)}$			
1859.12	17/2$^{(-)}$	279.2 *3*	7 *1*	1579.92	17/2$^{(-)}$			
		548.9 *3*	100 *10*	1310.2	(15/2$^-$)	M1+E2	0.0079 *10*	α(K)=0.0068 *9*; α(L)=0.00090 *7*; α(M)=0.000183 *13*; α(N+..)=4.2×10^{-5} *4* α(N)=3.8×10^{-5} *3*; α(O)=4.7×10^{-6} *5*
		965.8 *3*	19 *2*	893.51	13/2$^{(-)}$	Q		

From ENSDF

$^{125}_{54}Xe_{71}$-26

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
1864.99		968.9 *3*		896.03	$5/2^{(-)}$				
		1324.9 *3*		540.13	$3/2^{(+)}$				
1883.04	(15/2)	309.8[b] *3*	29 *4*	1573.34	(13/2)				
		495.1 *3*	100 *11*	1387.92	17/2				
		541.7 *3*	78 *9*	1341.21	$(9/2^-,11/2,13/2^-)$				
		1146.4 *3*	70 *9*	736.85	$13/2^{(-)}$				
1905.71		985.8 *3*	100 *12*	919.85	11/2				
		1012.3 *3*		893.51	$13/2^{(-)}$				
		1168.8 *3*	35 *6*	736.85	$13/2^{(-)}$				
1925.34	$17/2^{(+)}$	715.3[a] *3*	100	1209.93	$13/2^{(+)}$	E2		0.00352 *5*	B(E2)(W.u.)>27 α(K)=0.00301 *5*; α(L)=0.000405 *6*; α(M)=8.23×10^{-5} *12*; α(N+..)=1.90×10^{-5} *3* α(N)=1.694×10^{-5} *24*; α(O)=2.07×10^{-6} *3*
1934.5		1172.2 *3*		762.32	$(5/2^-)$				
1975.78	(15/2)	439.4[b] *3*		1536.24	$15/2^{(+)}$				
		659.9 *3*	48 *7*	1315.81	$(11/2^+)$				
		728.1 *3*	100 *10*	1247.74	11/2				
		728.8 *3*	100 *11*	1246.8					
		765.9 *3*	20 *3*	1209.93	$13/2^{(+)}$				
		1239.2[b] *3*		736.85	$13/2^{(-)}$				
2004.61	(15/2,17/2)	419.0 *3*	29 *4*	1585.53	(15/2)				
		563.5 *3*	100 *11*	1441.16	$19/2^{(-)}$				
		609.2 *3*	86 *10*	1395.60	$11/2^{(-)}$,13/2,15/2				
		1207.8 *3*	17 *3*	796.63	$15/2^{(-)}$				
2006.43	$19/2^{(-)}$	426.4[b] *3*		1579.92	$17/2^{(-)}$				
		565.4 *3*	17 *2*	1441.16	$19/2^{(-)}$				
		618.5 *3*	59 *6*	1387.92	17/2	M1+E2	−0.9 *3*	0.0059 *3*	α(K)=0.0051 *3*; α(L)=0.000664 *24*; α(M)=0.000135 *5*; α(N+..)=3.13×10^{-5} *12* α(N)=2.78×10^{-5} *10*; α(O)=3.45×10^{-6} *15*
		696.3 *3*	100 *10*	1310.15	$15/2^{(-)}$				
		1209.9 *3*		796.63	$15/2^{(-)}$				
2031.04	$(9/2^+,11/2,13/2^+)$	715.3[a] *3*		1315.81	$(11/2^+)$				
		821.1 *3*		1209.93	$13/2^{(+)}$				
		1434.2 *3*		596.77	$9/2^{(+)}$				
2035.7		1142.1 *3*		893.51	$13/2^{(-)}$				
		1298.9 *3*		736.85	$13/2^{(-)}$				
2046.5	$9/2^{(+)}$	1562.8 *3*		483.72	$7/2^{(+)}$	M1+E2	−5.7 *+24−33*	0.000756 *13*	α(K)=0.000567 *11*; α(L)=6.98×10^{-5} *13*;

From ENSDF

$^{125}_{54}Xe_{71}$-27

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
									α(M)=1.41×10^{-5} *3*; α(N+..)=0.0001054
									α(N)=2.91×10^{-6} *6*; α(O)=3.65×10^{-7} *7*;
									α(IPF)=0.0001022 *15*
2062.8		1032.7 *3*		1030.28	11/2$^{(+)}$				
		1325.8 *3*		736.85	13/2$^{(-)}$				
2082.0		834.2 *3*		1247.74	11/2				
		1345.2 *3*		736.85	13/2$^{(-)}$				
2095.04	(9/2$^+$,11/2,13/2$^+$)	885.2 *3*		1209.93	13/2$^{(+)}$				
		1257.6[a] *3*		837.34	9/2$^{(+)}$				
2096.8		1360.0 *3*		736.85	13/2$^{(-)}$				
2144.5		1547.7 *3*		596.77	9/2$^{(+)}$				
2150.86	15/2$^{(-)}$	577.7 *3*		1573.34	(13/2)				
		840.6 *3*		1310.15	15/2$^{(-)}$				
		1257.6[a] *3*		893.51	13/2$^{(-)}$	M1+E2	−7 *+1−2*	0.001020 *15*	α(K)=0.000869 *13*; α(L)=0.0001088 *16*;
									α(M)=2.20×10^{-5} *4*; α(N+..)=1.97×10^{-5}
									α(N)=4.54×10^{-6} *7*; α(O)=5.67×10^{-7} *8*;
									α(IPF)=1.461×10^{-5} *21*
		1354.0 *3*		796.63	15/2$^{(-)}$				
		1413.9 *3*		736.85	13/2$^{(-)}$				
2154.9	1/2,3/2	2044 *1*	33	111.79	3/2$^{(+)}$				
		2154 *1*	100	0.0	1/2$^{(+)}$				
2166.7		1246.8 *3*		919.85	11/2				
2166.73	21/2	725.4 *3*	64 *6*	1441.16	19/2$^{(-)}$	D+Q	−0.6 *1*		
		778.9[a] *3*	100 *10*	1387.92	17/2	Q			
2174.7		291.8 *3*		1883.04	(15/2)				
		601.2 *3*		1573.34	(13/2)				
2174.9		1438.0 *3*		736.85	13/2$^{(-)}$				
2193.9		1163.6 *3*		1030.28	11/2$^{(+)}$				
2215.74	23/2$^{(-)}$	774.4 *3*	100	1441.16	19/2$^{(-)}$	E2		0.00290 *4*	α(K)=0.00249 *4*; α(L)=0.000331 *5*;
									α(M)=6.71×10^{-5} *10*; α(N+..)=1.552×10^{-5} *22*
									α(N)=1.382×10^{-5} *20*; α(O)=1.698×10^{-6} *24*
2226.6	13/2	1196.1 *3*		1030.28	11/2$^{(+)}$				
		1490.0 *3*		736.85	13/2$^{(-)}$	D+Q	+0.9 *+2−3*		
2227.0		785.8 *3*		1441.16	19/2$^{(-)}$				
2237.83	17/2	757.3 *3*	100 *11*	1480.71	13/2$^{(+)}$	(Q)			
		1441.0 *3*	44 *6*	796.63	15/2$^{(-)}$	(D)			
2254.99		669.4 *3*		1585.53	(15/2)				
		675.2 *3*		1579.92	17/2$^{(-)}$				
		867.0 *3*		1387.92	17/2				

From ENSDF

$^{125}_{54}Xe_{71}$-28

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
2272.26	19/2(+)	736.0[a] *3*	100	1536.24	15/2(+)	E2		0.00328 *5*	B(E2)(W.u.)>23 α(K)=0.00281 *4*; α(L)=0.000376 *6*; α(M)=7.64×10^{-5} *11*; α(N+..)=1.766×10^{-5} *25* α(N)=1.574×10^{-5} *22*; α(O)=1.93×10^{-6} *3*
2301.5		1408.0 *3*		893.51	13/2(−)				
2315.23		218.4 *3*		2096.8					
		779.0 *3*		1536.24	15/2(+)				
		1005.0 *3*	<30	1310.15	15/2(−)				
		1518.7 *3*	100 *10*	796.63	15/2(−)				
		1578.4 *3*		736.85	13/2(−)				
2317.7		717.6 *3*		1600.09	(11/2)				
2349.4		490.3 *3*		1859.12	17/2(−)				
		763.9 *3*		1585.53	(15/2)				
2384.3		2048.9 *3*		335.37	5/2(+)				
2384.78	21/2(−)	378.2 *3*	7 *1*	2006.43	19/2(−)				
		805.0[a] *3*	100 *10*	1579.92	17/2(−)	(E2)		0.00265 *4*	α(K)=0.00227 *4*; α(L)=0.000300 *5*; α(M)=6.09×10^{-5} *9*; α(N+..)=1.409×10^{-5} *20* α(N)=1.255×10^{-5} *18*; α(O)=1.543×10^{-6} *22*
		943.7 *3*	15 *2*	1441.16	19/2(−)	M1+E2	−5.2	0.00186 *3*	α(K)=0.001605 *23*; α(L)=0.000207 *3*; α(M)=4.19×10^{-5} *6*; α(N+..)=9.71×10^{-6} *14* α(N)=8.64×10^{-6} *13*; α(O)=1.070×10^{-6} *15* δ: Uncertainty exceeds Δδ columns; *+24−260*.
2414.9		555.9 *3*		1859.12	17/2(−)				
		1618.1 *3*		796.63	15/2(−)				
2423.88	19/2(+)	705.1 *3*	100 *30*	1718.61	15/2				
		887.6 *3*	56 *11*	1536.24	15/2(+)				
		982.9 *3*		1441.16	19/2(−)				
		1035.9 *3*	87 *37*	1387.92	17/2	D			
2447.5?		707.9[b] *3*		1739.6					
2464.7		805.1 *3*		1659.69	15/2				
		1076.7 *3*		1387.92	17/2				
2485.08	(15/2$^-$,17/2,19/2$^-$)	658.8 *3*		1826.27	(15/2)				
		1044.1 *3*		1441.16	19/2(−)				
		1097.1 *3*		1387.92	17/2				
		1688.3 *3*		796.63	15/2(−)				
2508.3	19/2	848.4 *3*		1659.69	15/2				
		1067.4 *3*		1441.16	19/2(−)				
2508.7		1120.8 *3*		1387.92	17/2				
2524.4	1/2,3/2	2414 *1*	38	111.79	3/2(+)				

From ENSDF

$^{125}_{54}Xe_{71}$-29

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	δ[@]	α[&]	Comments
2524.4	1/2,3/2	2523 *1*	100	0.0	$1/2^{(+)}$				
2543.9	1/2,3/2	2431 *1*	100	111.79	$3/2^{(+)}$				
		2545 *1*	40	0.0	$1/2^{(+)}$				
2550.79	19/2	625.5 *3*	15 *6*	1925.34	$17/2^{(+)}$				
		832.3 *3*	100 *30*	1718.61	15/2	E2		0.00245 *4*	α(K)=0.00210 *3*; α(L)=0.000276 *4*; α(M)=5.61×10^{-5} *8*; α(N+..)=1.298×10^{-5} *19* α(N)=1.155×10^{-5} *17*; α(O)=1.424×10^{-6} *20*
		1163.0 *3*	68 *29*	1387.92	17/2	D			
2572.1		1130.9 *3*		1441.16	$19/2^{(-)}$				
2604.3		1807.7 *3*		796.63	$15/2^{(-)}$				
2616.7	(15/2,17/2)	898.1 *3*	100	1718.61	15/2				
2652.73	19/2	646.5 *3*		2006.43	$19/2^{(-)}$				
		793.7 *3*	100 *30*	1859.12	$17/2^{(-)}$				
		1264.7 *3*	72 *30*	1387.92	17/2	M1+E2		0.00114 *14*	α(K)=0.00097 *12*; α(L)=0.000120 *14*; α(M)=2.4×10^{-5} *3*; α(N+..)=2.10×10^{-5} *4* α(N)=5.0×10^{-6} *6*; α(O)=6.3×10^{-7} *8*; α(IPF)=1.53×10^{-5} *6*
2664.3		688.5 *3*		1975.78	(15/2)				
2671.3		356.0 *3*	73 *8*	2315.23					
		952.8 *3*	100 *12*	1718.61	15/2				
2704.19	$21/2^{(+)}$	778.9[a] *3*	100	1925.34	$17/2^{(+)}$	E2		0.00286 *4*	α(K)=0.00246 *4*; α(L)=0.000326 *5*; α(M)=6.61×10^{-5} *10*; α(N+..)=1.530×10^{-5} *22* α(N)=1.362×10^{-5} *20*; α(O)=1.674×10^{-6} *24*
2811.46	(23/2)	596.1 *3*	53 *22*	2215.74	$23/2^{(-)}$	(D+Q)	−0.5 *4*		
		805.0[a] *3*	100 *30*	2006.43	$19/2^{(-)}$				
2819.27	(17/2)	202.6[a] *3*	12 *4*	2616.7	(15/2,17/2)				
		268.5 *3*	15 *5*	2550.79	19/2				
		504.2 *3*	12 *4*	2315.23					
		813.0 *3*	13 *4*	2006.43	$19/2^{(-)}$				
		893.7 *3*	8 *3*	1925.34	$17/2^{(+)}$				
		1378.0 *3*	100 *20*	1441.16	$19/2^{(-)}$				
2852.7		848.1 *3*		2004.61	(15/2,17/2)				
2890.52	(21/2)	466.5 *3*	21 *8*	2423.88	$19/2^{(+)}$				
		618.3 *3*	100 *20*	2272.26	$19/2^{(+)}$				
		675.1 *3*	24 *9*	2215.74	$23/2^{(-)}$				
		723.8 *3*	63 *18*	2166.73	21/2				
2926.6		1485.2 *3*	100	1441.16	$19/2^{(-)}$				
2952.59	(19/2)	528.8 *3*	76 *32*	2423.88	$19/2^{(+)}$				
		680.5 *3*	67 *28*	2272.26	$19/2^{(+)}$				
		785.7 *3*	100 *30*	2166.73	21/2				

From ENSDF

$^{125}_{54}Xe_{71}$-30

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	α[&]	Comments
2970.35	(21/2)	732.5 *3*	100 *30*	2237.83	17/2			
		1529.6[b] *3*	<30	1441.16	$19/2^{(-)}$			
3000.1		784.2[a] *3*	100	2215.74	$23/2^{(-)}$			
3055.2	25/2	839.3 *3*	82 *34*	2215.74	$23/2^{(-)}$	D+Q		
		888.5 *3*	100 *30*	2166.73	21/2	E2	0.00211 *3*	α(K)=0.00181 *3*; α(L)=0.000236 *4*; α(M)=4.78×10^{-5} *7*; α(N+..)=1.108×10^{-5} *16* α(N)=9.86×10^{-6} *14*; α(O)=1.218×10^{-6} *17*
3075.14	(21/2)	105.2 *3*	16 *7*	2970.35	(21/2)			
		148.3[a] *3*	9 *4*	2926.6				
		255.9 *3*	43 *15*	2819.27	(17/2)			
		371.0 *3*	76 *27*	2704.19	$21/2^{(+)}$			
		422.6 *3*	14 *6*	2652.73	19/2			
		524.4 *3*	85 *31*	2550.79	19/2			
		690.5 *3*	30 *13*	2384.78	$21/2^{(-)}$			
		802.9[a] *3*	68 *24*	2272.26	$19/2^{(+)}$			
		859.0[a] *3*	43 *15*	2215.74	$23/2^{(-)}$			
		908.5 *3*	100 *30*	2166.73	21/2			
		1633.5 *3*	<9	1441.16	$19/2^{(-)}$			
3099.9	$27/2^{(-)}$	884.2 *3*	100	2215.74	$23/2^{(-)}$	E2	0.00213 *3*	α(K)=0.00183 *3*; α(L)=0.000239 *4*; α(M)=4.84×10^{-5} *7*; α(N+..)=1.121×10^{-5} *16* α(N)=9.98×10^{-6} *14*; α(O)=1.232×10^{-6} *18*
3131.3	(23/2)	859.0[a] *3*	100	2272.26	$19/2^{(+)}$			
3151.15	(21/2)	331.9 *3*	91 *23*	2819.27	(17/2)			
		878.9 *3*	100 *30*	2272.26	$19/2^{(+)}$			
3210.8	(21/2)	660.3 *3*		2550.79	19/2			
		938.3[a] *3*		2272.26	$19/2^{(+)}$			
3272.2	(25/2)	887.3 *3*	100	2384.78	$21/2^{(-)}$			
3277.91	(23/2)	126.8 *3*	17 *6*	3151.15	(21/2)			
		146.7 *3*	8 *3*	3131.3	(23/2)			
		202.6[a] *3*	100 *20*	3075.14	(21/2)			
		277.6[a] *3*	9 *4*	3000.1				
		325.7 *3*	8 *3*	2952.59	(19/2)			
		387.6 *3*	19 *8*	2890.52	(21/2)			
		458.6 *3*	84 *30*	2819.27	(17/2)			
		466.6 *3*	34 *14*	2811.46	(23/2)			
		573.4 *3*	82 *30*	2704.19	$21/2^{(+)}$			
		1062.1 *3*	56 *20*	2215.74	$23/2^{(-)}$			
3322.88	(23/2)	370.0 *3*	81 *34*	2952.59	(19/2)			
		619.0 *3*	100 *30*	2704.19	$21/2^{(+)}$			
		1107.0 *3*	82 *34*	2215.74	$23/2^{(-)}$			

From ENSDF

$^{125}_{54}Xe_{71}$-31

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[#]	α[&]	Comments
3379.5		248.2 *3*	31 *11*	3131.3	(23/2)			
		304.4 *3*	100 *20*	3075.14	(21/2)			
3486.4	(25/2)	163.4 *3*	2 *1*	3322.88	(23/2)			
		208.3 *3*	100 *20*	3277.91	(23/2)			
3487.2	(25/2)	783.0 *3*	100	2704.19	$21/2^{(+)}$			
3519.4	(25/2)	464.2 *3*	11 *4*	3055.2	25/2			
		628.9 *3*	100 *20*	2890.52	(21/2)			
3523.8		1308.1 *3*	100	2215.74	$23/2^{(-)}$			
3562.7		1347.0 *3*	100	2215.74	$23/2^{(-)}$			
3619.0	(27/2)	519.2[a] *3*	100 *30*	3099.9	$27/2^{(-)}$	(D+Q)		
		807.7 *3*	56 *24*	2811.46	(23/2)			
3650.0		697.4 *3*	100	2952.59	(19/2)			
3752.8	(27/2)	941.3 *3*	100	2811.46	(23/2)			
3898.7		519.2[a] *3*	100	3379.5				
3959.8	(27/2)	473.3 *3*	100	3486.4	(25/2)			
4052.8	29/2	953.1 *3*	99 *42*	3099.9	$27/2^{(-)}$			
		997.4 *3*	100 *30*	3055.2	25/2			
4064.9	(27/2)	742.0 *3*	100	3322.88	(23/2)			
4070.8	$(31/2^-)$	970.9 *3*	100	3099.9	$27/2^{(-)}$	(E2)	0.001729 *25*	α(K)=0.001490 *21*; α(L)=0.000192 *3*; α(M)=3.88×10^{-5} *6*; α(N+..)=9.00×10^{-6} *13* α(N)=8.01×10^{-6} *12*; α(O)=9.92×10^{-7} *14*
4134.7		648.3 *3*	81 *34*	3486.4	(25/2)			
		857.0 *3*	100 *30*	3277.91	(23/2)			
4148.3	(27/2)	1017		3131.3	(23/2)			
4211.3	(29/2)	938.3[a]		3272.2	(25/2)			
		1111.5[b] *3*		3099.9	$27/2^{(-)}$			
4268.2	(29/2)	748.8 *3*	100	3519.4	(25/2)			
4292.7	(29/2)	158.1 *3*	9 *3*	4134.7				
		333.1 *3*	23 *8*	3959.8	(27/2)			
		806.2 *3*	100 *30*	3486.4	(25/2)			
4383.2	(31/2)	312.3 *3*	100 *30*	4070.8	$(31/2^-)$			
		764.6 *3*	<5	3619.0	(27/2)			
		1283.1 *3*	<5	3099.9	$27/2^{(-)}$	(Q)		Mult.: From (D+Q) by R(DCO) in ^{116}Cd(^{13}C,4nγ) and relevant levels.
4573.5	(31/2)	954.5 *3*	100	3619.0	(27/2)			
4762.9	(31/2)	470.5 *3*	100 *20*	4292.7	(29/2)			
		802.9[a] *3*	13 *5*	3959.8	(27/2)			
4912.1	(31/2)	847.2 *3*	100	4064.9	(27/2)			
5066.8	(35/2)	996.6 *3*	100	4070.8	$(31/2^-)$			
5122.1	(33/2)	1069.4 *3*	100	4052.8	29/2			
5137.9	(33/2)	869.7[a] *3*	100	4268.2	(29/2)			
5162.5	(33/2)	399.6 *3*	24 *10*	4762.9	(31/2)			

From ENSDF

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π	Comments
5162.5	(33/2)	869.7[a] *3*	100 *30*	4292.7	(29/2)	
5200.2		1147.4 *3*	100	4052.8	29/2	
5200.8	(33/2)	989.5		4211.3	(29/2)	
5319.8	(35/2)	1249		4070.8	(31/2$^-$)	
5320.2	(35/2)	936.9[b] *3*	<50	4383.2	(31/2)	
		1248.9 *3*	100 *50*	4070.8	(31/2$^-$)	
5826.8	(35/2)	914.7 *3*	100	4912.1	(31/2)	
5976.4	(37/2)	814		5162.5	(33/2)	
5995.5	(35/2)	833		5162.5	(33/2)	
		874[b]		5122.1	(33/2)	
		1232		4762.9	(31/2)	
6096.8	(39/2)	1030.0 *3*	100	5066.8	(35/2)	
6113.5	(37/2)	975.6 *3*	100	5137.9	(33/2)	
6251.6	(37/2)	1089.1 *3*	100	5162.5	(33/2)	
6344.3?	(39/2)	1024[b]		5320.2	(35/2)	
6345.4	(39/2)	1024.5 *3*	100	5320.2	(35/2)	
		1279.2 *3*		5066.8	(35/2)	E_γ: From ^{116}Cd(^{13}C,4nγ).
6752.9	(39/2)	501.5 *3*	100	6251.6	(37/2)	
6814.8	(39/2)	988 *1*		5826.8	(35/2)	
7098.3	(41/2)	1122		5976.4	(37/2)	
7174.8	(43/2)	1078		6096.8	(39/2)	
7177.5	(41/2)	1064 *1*		6113.5	(37/2)	
7215.7	(43/2)	1118.9 *3*	100	6096.8	(39/2)	
7287.0	(41/2)	534.3 *3*		6752.9	(39/2)	
		1035.2 *3*		6251.6	(37/2)	
7334.2	(43/2)	988.6		6345.4	(39/2)	E_γ: From ^{116}Cd(^{13}C,4nγ).
		1238 *1*		6096.8	(39/2)	
7768.9	(43/2)	482 *1*		7287.0	(41/2)	
		1016 *1*		6752.9	(39/2)	
7892.8	(43/2)	1078		6814.8	(39/2)	
8242.8	(47/2)	909		7334.2	(43/2)	
		1027		7215.7	(43/2)	
8265.3	(45/2)	978.3 *3*		7287.0	(41/2)	
8315.2	(45/2)	1028[b]		7287.0	(41/2)	
		1217		7098.3	(41/2)	
8331.5	(45/2)	1154 *1*		7177.5	(41/2)	
8351.8	(47/2)	1177		7174.8	(43/2)	
8398.1?	(47/2)	1182[b]		7215.7	(43/2)	
8406.8	(47/2)	1232		7174.8	(43/2)	
8453.2?		1237.5[b] *3*		7215.7	(43/2)	

From ENSDF

$^{125}_{54}Xe_{71}$-33

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ[†]	E_f	J_f^π
8496.7		1281 *1*	7215.7	(43/2)
8704.7	(47/2)	439 *1*	8265.3	(45/2)
		936 *1*	7768.9	(43/2)
9289.2	(49/2)	974	8315.2	(45/2)
		1024	8265.3	(45/2)
9327.0	(49/2)	621	8704.7	(47/2)
		1062	8265.3	(45/2)
9401.4	(51/2)	1003[b]	8398.1?	(47/2)
		1159	8242.8	(47/2)
9517.8	(51/2)	1111	8406.8	(47/2)
		1166	8351.8	(47/2)
9568.5	(49/2)	1237	8331.5	(45/2)
9708.9	(51/2)	381	9327.0	(49/2)
		1005	8704.7	(47/2)
10368.2	(53/2)	1079	9289.2	(49/2)
10473.4	(55/2)	1072	9401.4	(51/2)
10583.4	(55/2)	1182	9401.4	(51/2)
10749.8	(55/2)	1232	9517.8	(51/2)
10847.6	(53/2)	1279	9568.5	(49/2)
11514.2	(57/2)	1146	10368.2	(53/2)
11870.4	(59/2)	1287	10583.4	(55/2)
12080.8	(59/2)	1331	10749.8	(55/2)
12770.2	(61/2)	1256	11514.2	(57/2)
13162.5	(63/2)	1292	11870.4	(59/2)
13520.8	(63/2)	1440	12080.8	(59/2)
14144.3	(65/2)	1374	12770.2	(61/2)
15078	(67/2)	1557	13520.8	(63/2)
15172	(65/2)	1251	13921	(61/2)
15638.3	(69/2)	1494	14144.3	(65/2)
16492	(69/2)	1320	15172	(65/2)
16758	(71/2)	1680	15078	(67/2)
17248	(73/2)	1610	15638.3	(69/2)
17888	(73/2)	1396	16492	(69/2)
18557	(75/2)	1799	16758	(71/2)
18967	(77/2)	1719	17248	(73/2)
19356	(77/2)	1468	17888	(73/2)
		2108[b]	17248	(73/2)
20457	(79/2)	1900	18557	(75/2)
20775	(81/2)	1808	18967	(77/2)
20911	(81/2)	1555	19356	(77/2)
		1944	18967	(77/2)
22339	(83/2)	1882	20457	(79/2)
22472	(85/2)	1561	20911	(81/2)
		1697	20775	(81/2)
22508	(85/2)	1733	20775	(81/2)
24130	(89/2)	1658	22472	(85/2)
24252	(87/2)	1913	22339	(83/2)
24341	(89/2)	1833	22508	(85/2)
25880	(93/2)	1750	24130	(89/2)
26172	(93/2)	1831	24341	(89/2)
26275	(91/2)	2023	24252	(87/2)
27741	(97/2)	1861	25880	(93/2)
28098	(97/2)	1926	26172	(93/2)
28413	(95/2)	2138	26275	(91/2)
29720	(101/2)	1979	27741	(97/2)
30117	(101/2)	2019	28098	(97/2)
30702	(99/2)	2289	28413	(95/2)
31826	(105/2)	2106	29720	(101/2)
32226	(105/2)	2109	30117	(101/2)
32856	(103/2)	2154	30702	(99/2)
34058	(109/2)	2232	31826	(105/2)
34408	(109/2)	2182	32226	(105/2)
35201	(107/2)	2345[b]	32856	(103/2)
36413	(113/2)	2355	34058	(109/2)
36668	(113/2)	2260[b]	34408	(109/2)
37618	(111/2)	2417[b]	35201	(107/2)
1077.0+x	(51/2$^-$)	1077	x	(47/2$^-$)
2231.0+x	(55/2$^-$)	1154	1077.0+x	(51/2$^-$)
3455.0+x	(59/2$^-$)	1224	2231.0+x	(55/2$^-$)
4777.0+x	(63/2$^-$)	1322	3455.0+x	(59/2$^-$)
6189.0+x	(67/2$^-$)	1412	4777.0+x	(63/2$^-$)
7696.0+x	(71/2$^-$)	1507	6189.0+x	(67/2$^-$)
9307+x	(75/2$^-$)	1611	7696.0+x	(71/2$^-$)
11008+x	(79/2$^-$)	1701	9307+x	(75/2$^-$)
11036+x	(79/2$^-$)	1729	9307+x	(75/2$^-$)
12709+x	(83/2$^-$)	1701	11008+x	(79/2$^-$)
12860+x	(83/2$^-$)	1824	11036+x	(79/2$^-$)
		1852[b]	11008+x	(79/2$^-$)
14499+x	(87/2$^-$)	1790	12709+x	(83/2$^-$)
14747+x	(87/2$^-$)	1887	12860+x	(83/2$^-$)
16382+x	(91/2$^-$)	1883	14499+x	(87/2$^-$)
16696+x	(91/2$^-$)	1949	14747+x	(87/2$^-$)
18355+x	(95/2$^-$)	1973	16382+x	(91/2$^-$)
18730+x	(95/2$^-$)	2034	16696+x	(91/2$^-$)

From ENSDF

$^{125}_{54}Xe_{71}$-34

Adopted Levels, Gammas (continued)

γ(^{125}Xe) (continued)

E_i(level)	J_i^π	E_γ †	E_f	J_f^π
11008+x	(79/2$^-$)	1701	9307+x	(75/2$^-$)
11036+x	(79/2$^-$)	1729	9307+x	(75/2$^-$)
12709+x	(83/2$^-$)	1701	11008+x	(79/2$^-$)
12860+x	(83/2$^-$)	1824	11036+x	(79/2$^-$)
		1852[b]	11008+x	(79/2$^-$)
14499+x	(87/2$^-$)	1790	12709+x	(83/2$^-$)
14747+x	(87/2$^-$)	1887	12860+x	(83/2$^-$)
16382+x	(91/2$^-$)	1883	14499+x	(87/2$^-$)
16696+x	(91/2$^-$)	1949	14747+x	(87/2$^-$)
18355+x	(95/2$^-$)	1973	16382+x	(91/2$^-$)
18730+x	(95/2$^-$)	2034	16696+x	(91/2$^-$)
20426+x	(99/2$^-$)	2071	18355+x	(95/2$^-$)
22594+x	(103/2$^-$)	2168	20426+x	(99/2$^-$)
24850+x	(107/2$^-$)	2256	22594+x	(103/2$^-$)
27174+x	(111/2$^-$)	2324	24850+x	(107/2$^-$)
1091.0+y	(53/2$^-$)	1091	y	(49/2$^-$)
2339.0+y	(57/2$^-$)	1248	1091.0+y	(53/2$^-$)
3596.0+y	(61/2$^-$)	1257	2339.0+y	(57/2$^-$)
4896.0+y	(65/2$^-$)	1300	3596.0+y	(61/2$^-$)
6211.0+y	(69/2$^-$)	1315	4896.0+y	(65/2$^-$)
7592.0+y	(73/2$^-$)	1381	6211.0+y	(69/2$^-$)
9080+y	(77/2$^-$)	1488	7592.0+y	(73/2$^-$)
12343+y	(85/2$^-$)	1659	10684+y	(81/2$^-$)
14056+y	(89/2$^-$)	1713	12343+y	(85/2$^-$)
15809+y	(93/2$^-$)	1753	14056+y	(89/2$^-$)
17671+y	(97/2$^-$)	1862	15809+y	(93/2$^-$)
19648+y	(101/2$^-$)	1977	17671+y	(97/2$^-$)
21752+y	(105/2$^-$)	2104	19648+y	(101/2$^-$)
23982+y	(109/2$^-$)	2230	21752+y	(105/2$^-$)
26337+y	(113/2$^-$)	2355	23982+y	(109/2$^-$)
1116.0+z	(57/2$^-$)	1116	z	(53/2$^-$)
2317.0+z	(61/2$^-$)	1201	1116.0+z	(57/2$^-$)
3618.0+z	(65/2$^-$)	1301	2317.0+z	(61/2$^-$)
5030.0+z	(69/2$^-$)	1412	3618.0+z	(65/2$^-$)
6554.0+z	(73/2$^-$)	1524	5030.0+z	(69/2$^-$)
9847+z	(81/2$^-$)	1658[b]	8189.0+z	(77/2$^-$)
9919+z	(81/2$^-$)	1730	8189.0+z	(77/2$^-$)
11601+z	(85/2$^-$)	1682[b]	9919+z	(81/2$^-$)
		1754[b]	9847+z	(81/2$^-$)
11732+z	(85/2$^-$)	1813	9919+z	(81/2$^-$)
13469+z	(89/2$^-$)	1868	11601+z	(85/2$^-$)
13652+z	(89/2$^-$)	1920	11732+z	(85/2$^-$)
15448+z	(93/2$^-$)	1979	13469+z	(89/2$^-$)
15686+z	(93/2$^-$)	2034	13652+z	(89/2$^-$)
17535+z	(97/2$^-$)	2087	15448+z	(93/2$^-$)

From ENSDF

$^{125}_{54}Xe_{71}$-35

Adopted Levels, Gammas (continued)

$\gamma(^{125}Xe)$ (continued)

E_i(level)	J_i^π	E_γ †	E_f	J_f^π
17844+z	(97/2$^-$)	2158	15686+z	(93/2$^-$)
20108+z	(101/2$^-$)	2264	17844+z	(97/2$^-$)
1223.0+u	(59/2$^+$)	1223	u	(55/2$^+$)
2548.0+u	(63/2$^+$)	1325	1223.0+u	(59/2$^+$)
3940.0+u	(67/2$^+$)	1392	2548.0+u	(63/2$^+$)
5427.0+u	(71/2$^+$)	1487	3940.0+u	(67/2$^+$)
8711.1+u	(79/2$^+$)	1696	7015.0+u	(75/2$^+$)
10517+u	(83/2$^+$)	1806	8711.1+u	(79/2$^+$)
12437+u	(87/2$^+$)	1920	10517+u	(83/2$^+$)
14467+u	(91/2$^+$)	2030	12437+u	(87/2$^+$)
16610+u	(95/2$^+$)	2143	14467+u	(91/2$^+$)
18861+u	(99/2$^+$)	2251	16610+u	(95/2$^+$)
21213+u	(103/2$^+$)	2352	18861+u	(99/2$^+$)
23630+u	(107/2$^+$)	2417	21213+u	(103/2$^+$)

From ENSDF

$^{125}_{54}Xe_{71}$-36

Adopted Levels, Gammas (continued)

$\gamma(^{125}Xe)$ (continued)

† From $^{116}Cd(^{13}C,4nx)$ and $^{122}Te(\alpha,n\gamma),^{123}Te(\alpha,2n\gamma)$ data set, unless otherwise noted.
‡ Weak γ-ray in ^{127}Cs ε decay.
# From $^{122}Te(\alpha,n\gamma),^{123}Te(\alpha,2n\gamma)$ and $^{116}Cd(^{13}C,4n\gamma)$ data sets, unless otherwise noted.
@ From $^{122}Te(\alpha,n\gamma),^{123}Te(\alpha,2n\gamma)$ data set, unless otherwise noted.
& 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.
[a] Multiply placed.
[b] Placement of transition in the level scheme is uncertain.

From ENSDF

$^{125}_{54}Xe_{71}$-37

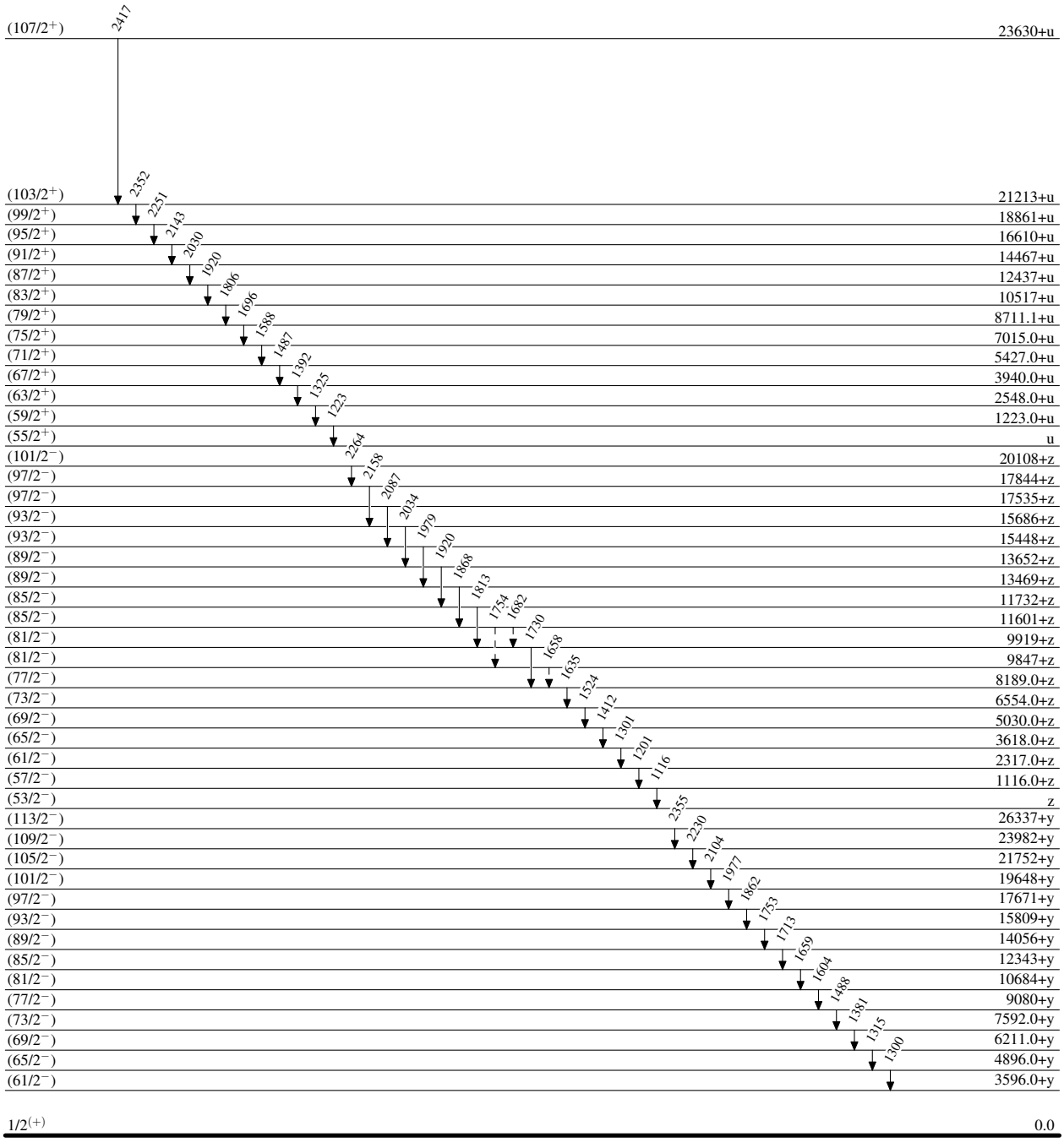
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

– – – – – – ► γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

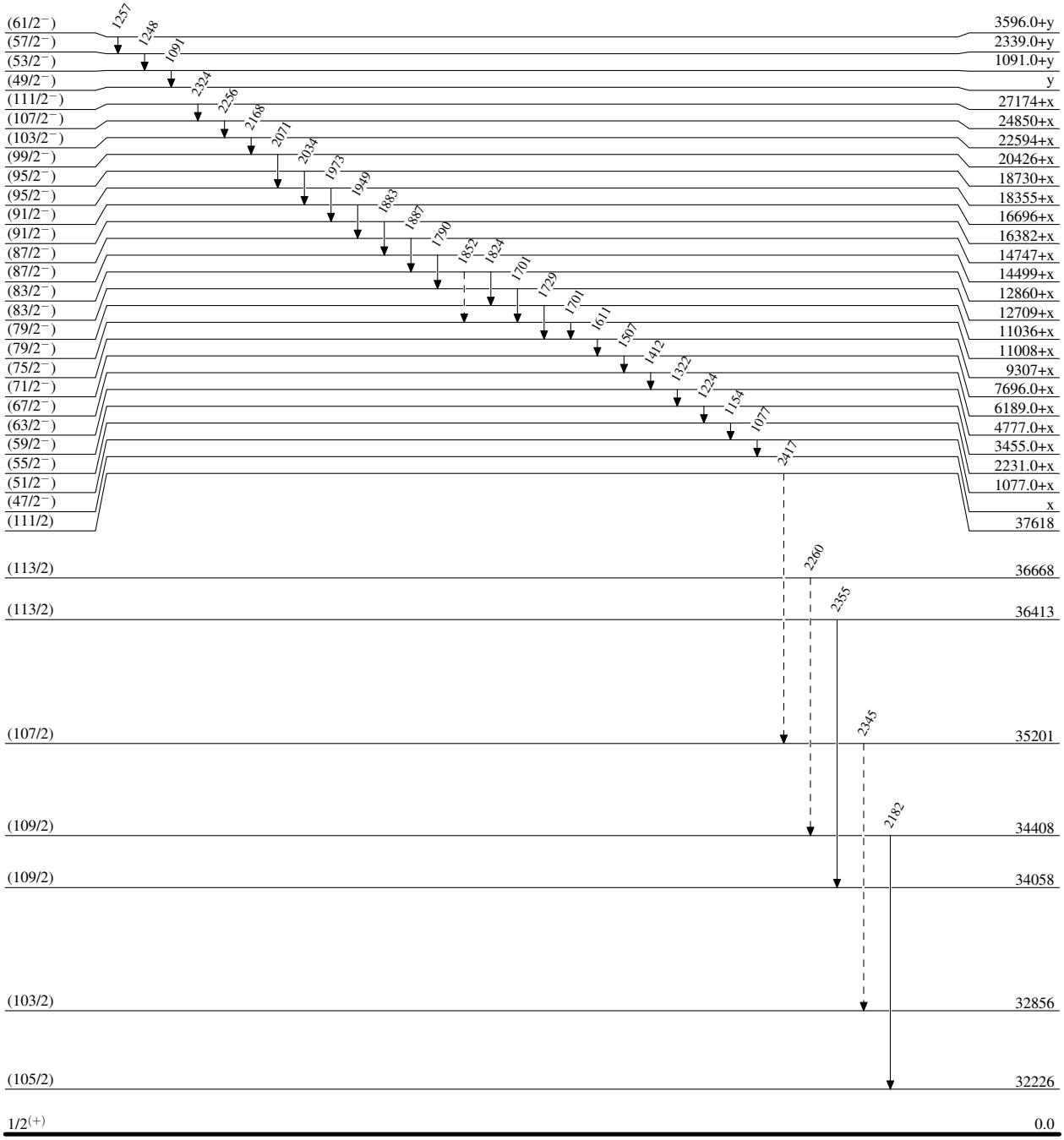
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



16.9 h *2*

$^{125}_{54}Xe_{71}$

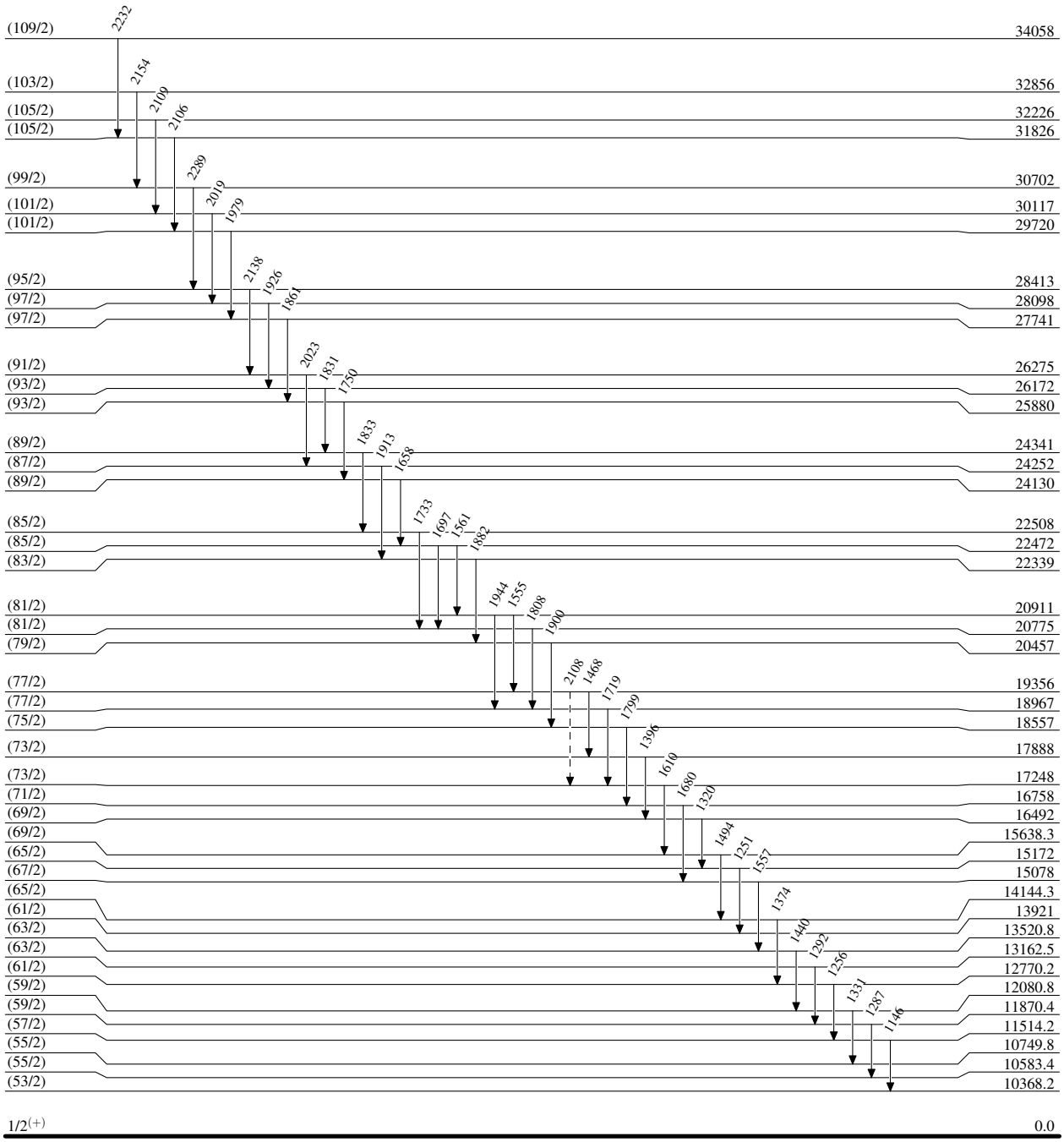
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



16.9 h *2*

$^{125}_{54}Xe_{71}$

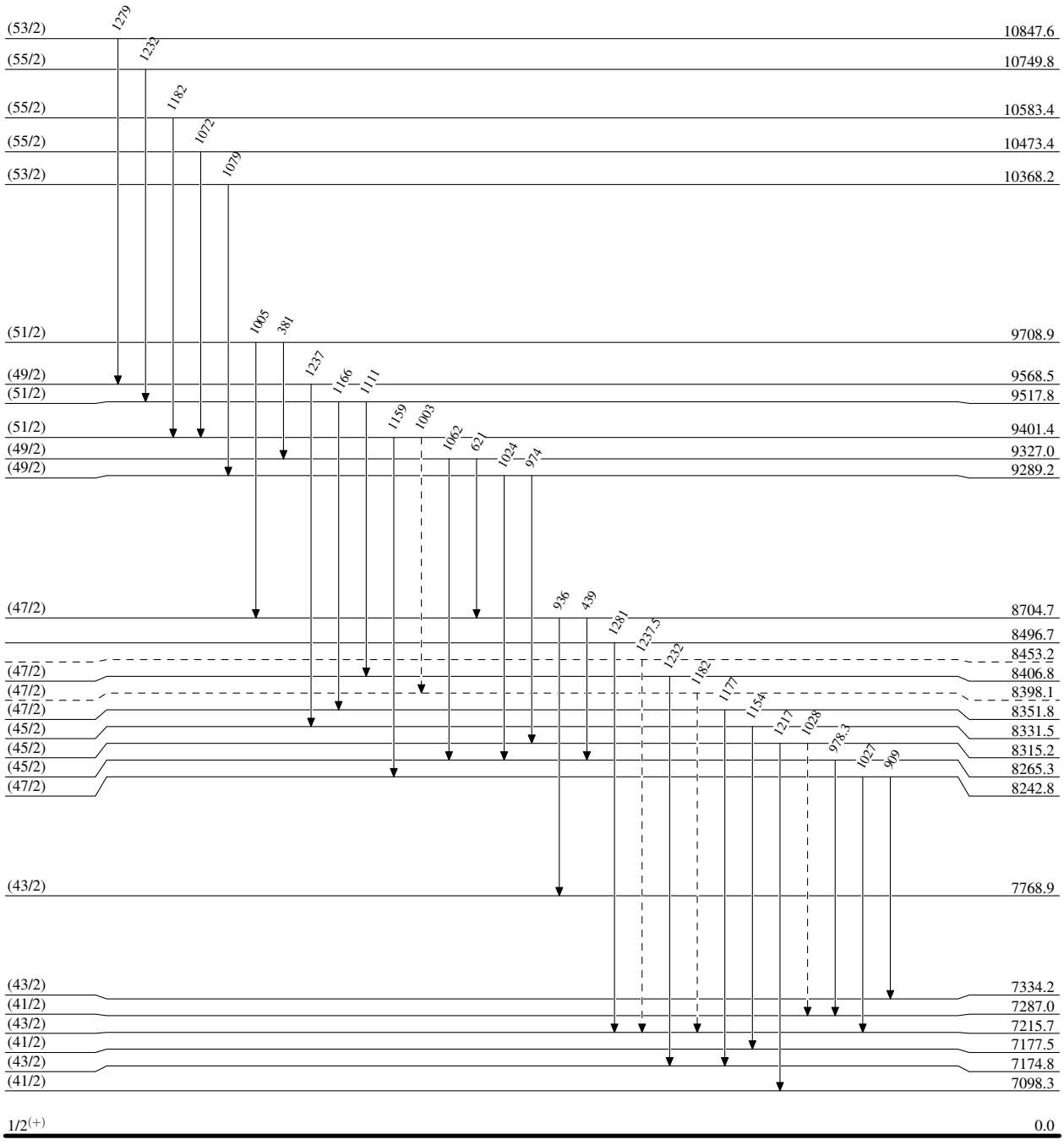
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

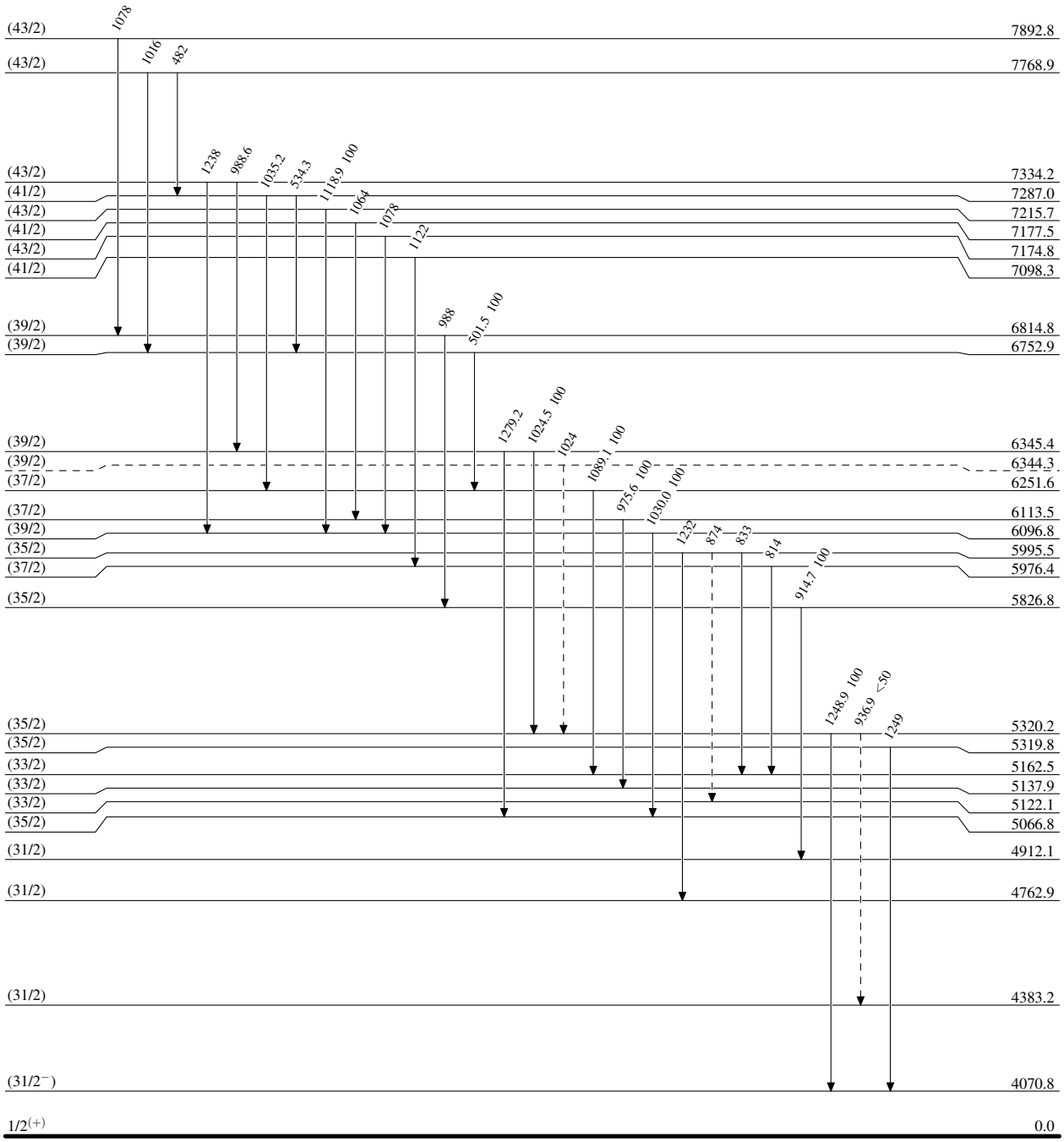
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



16.9 h *2*

$^{125}_{54}Xe_{71}$

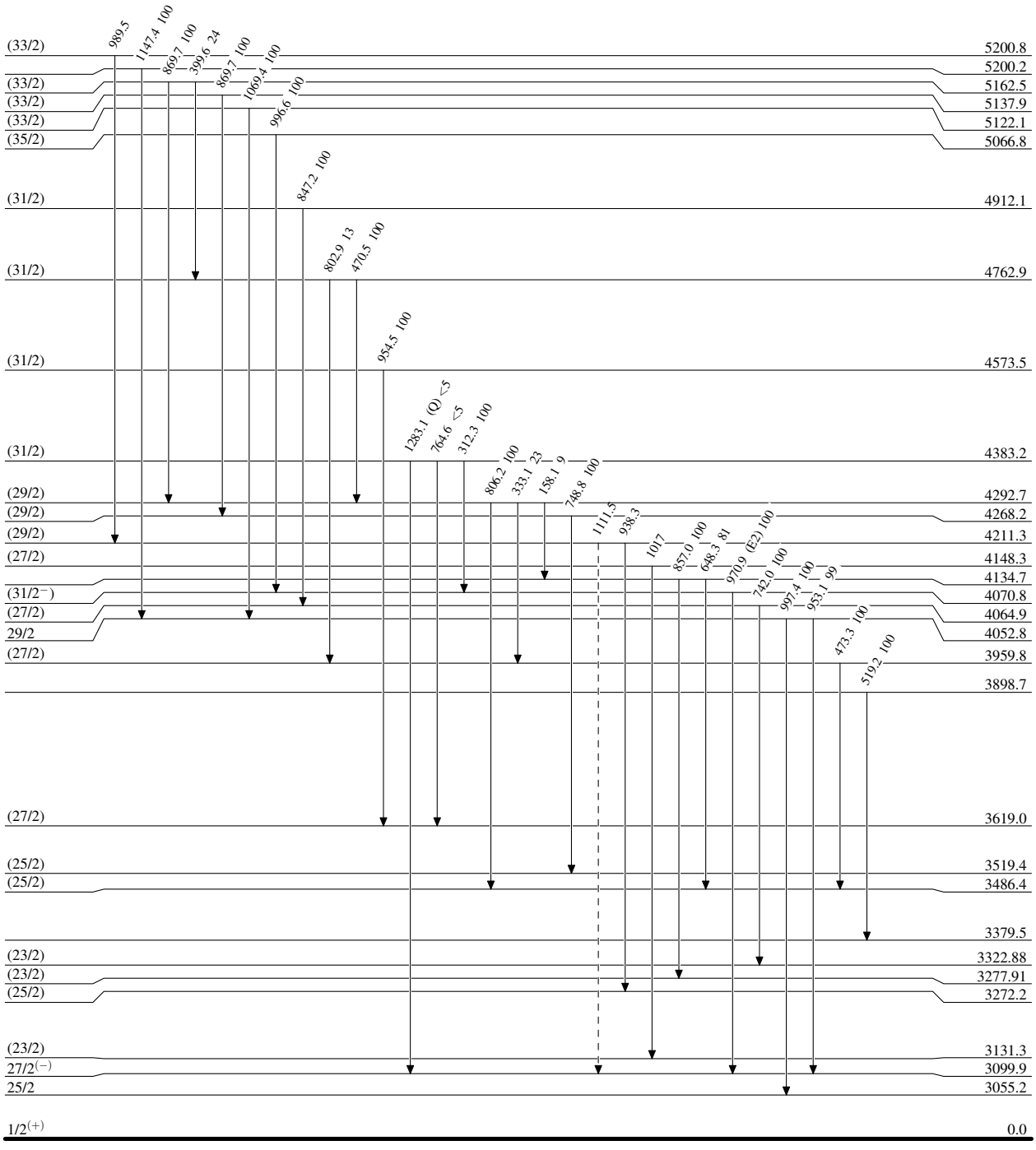
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

– – – – – – ► γ Decay (Uncertain)

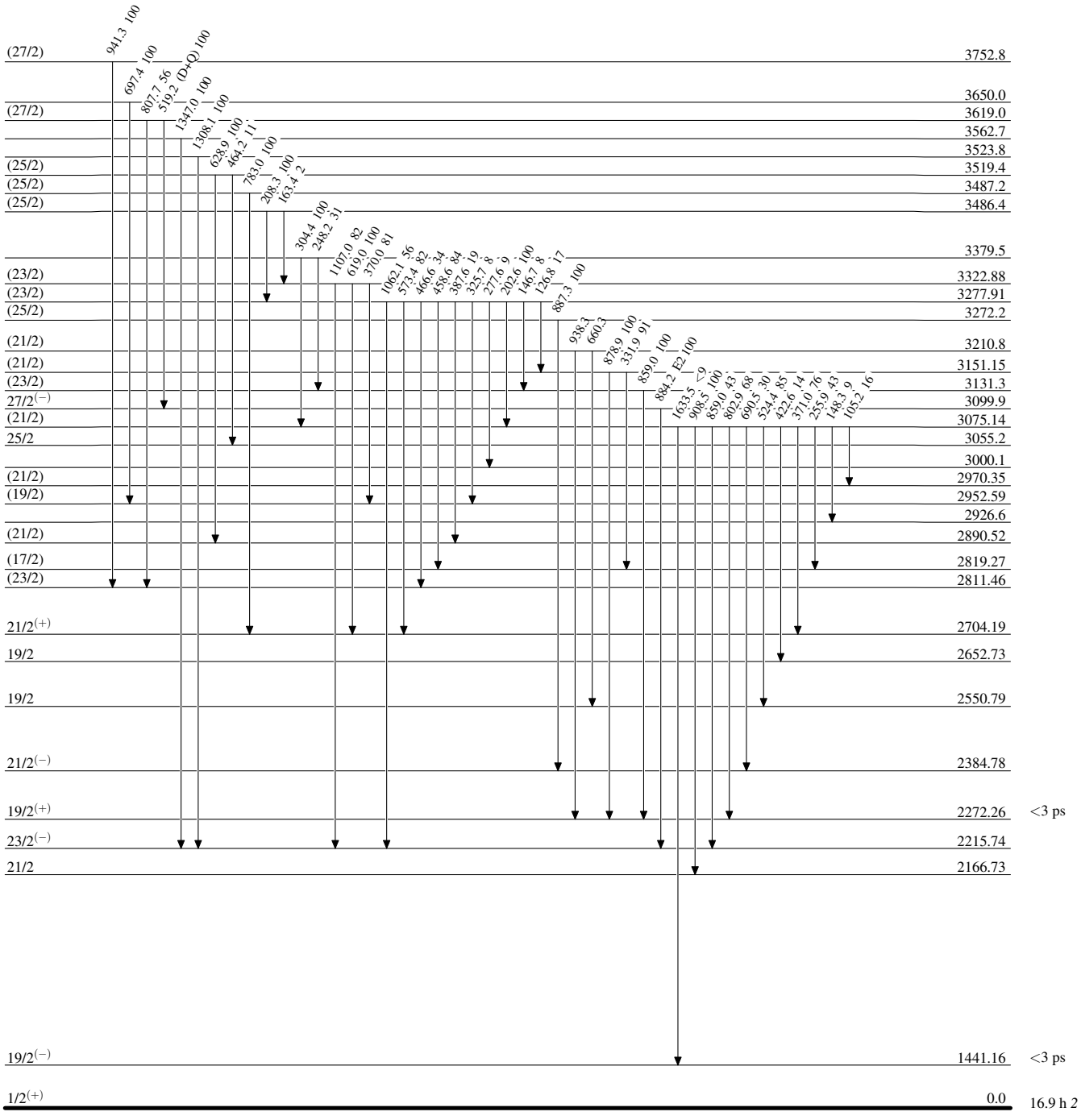


$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{125}_{54}Xe_{71}$

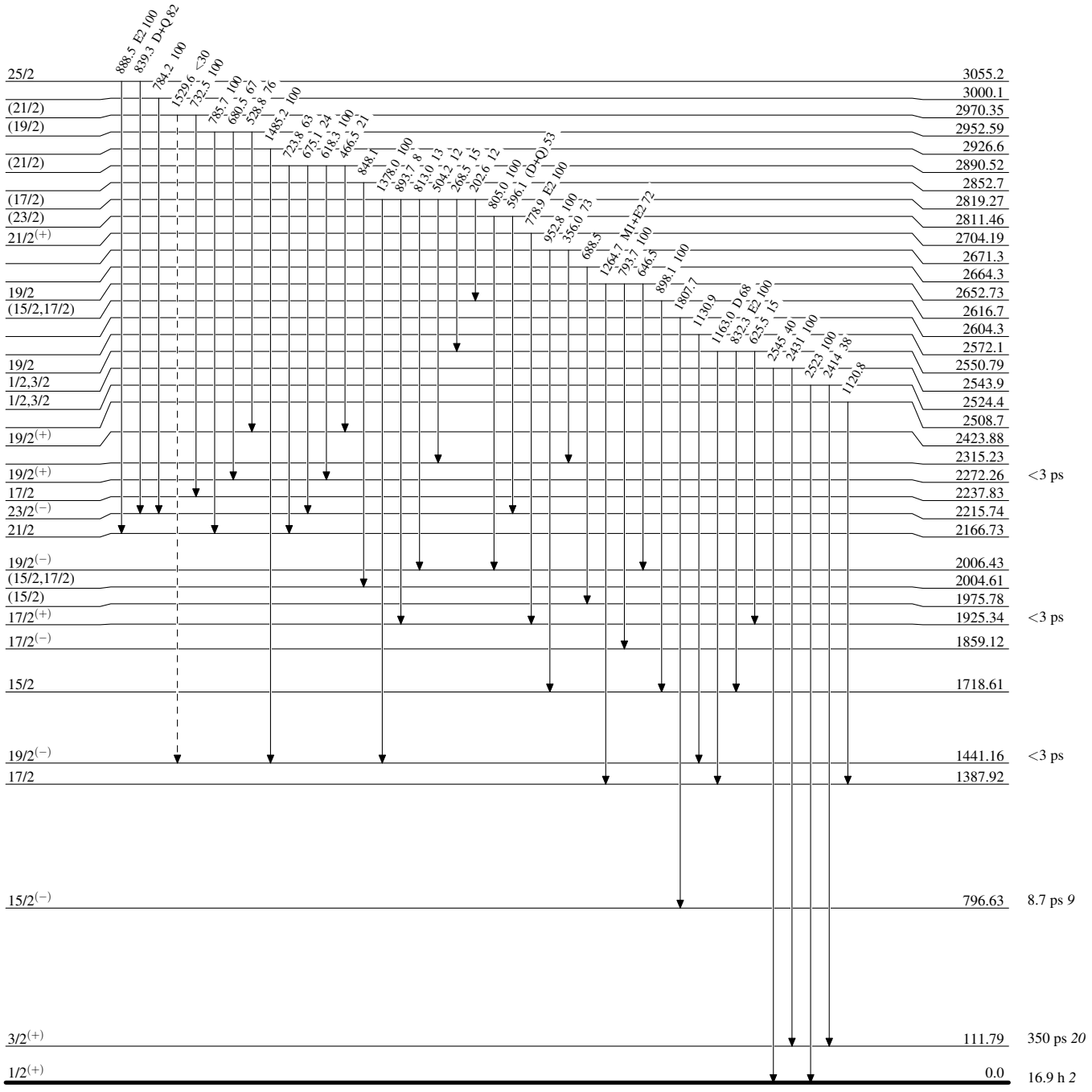
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

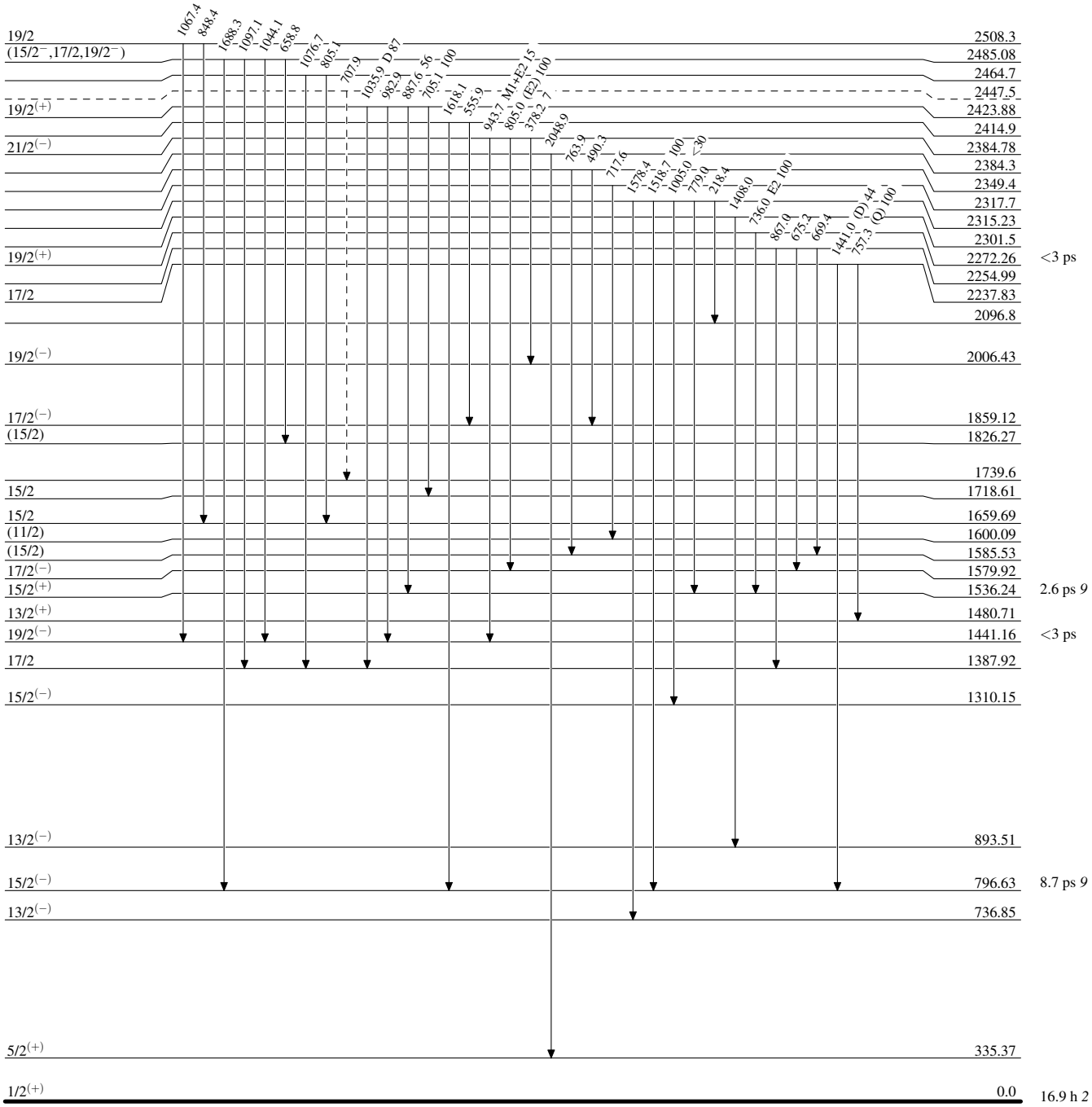
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

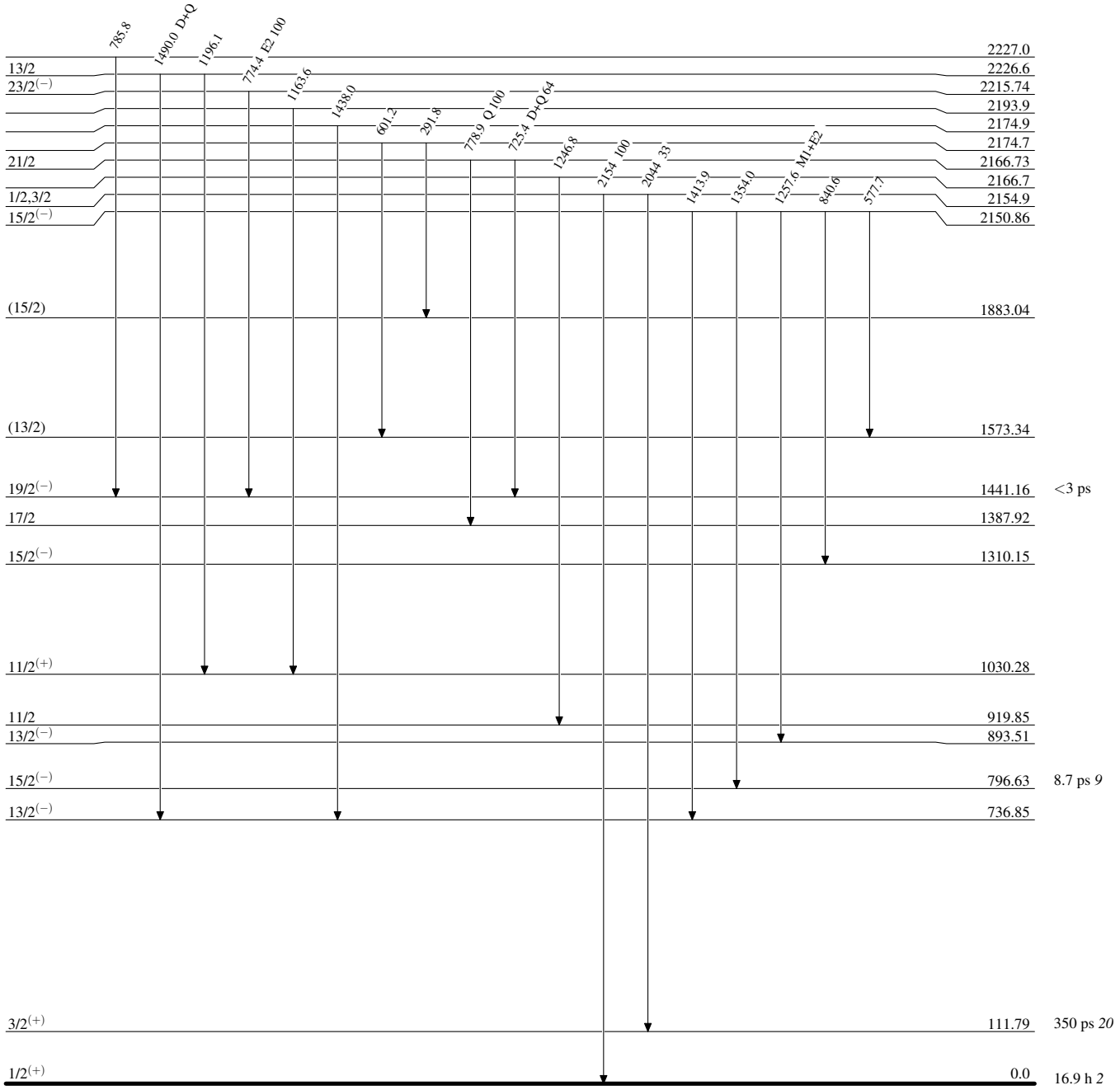


$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{125}_{54}Xe_{71}$

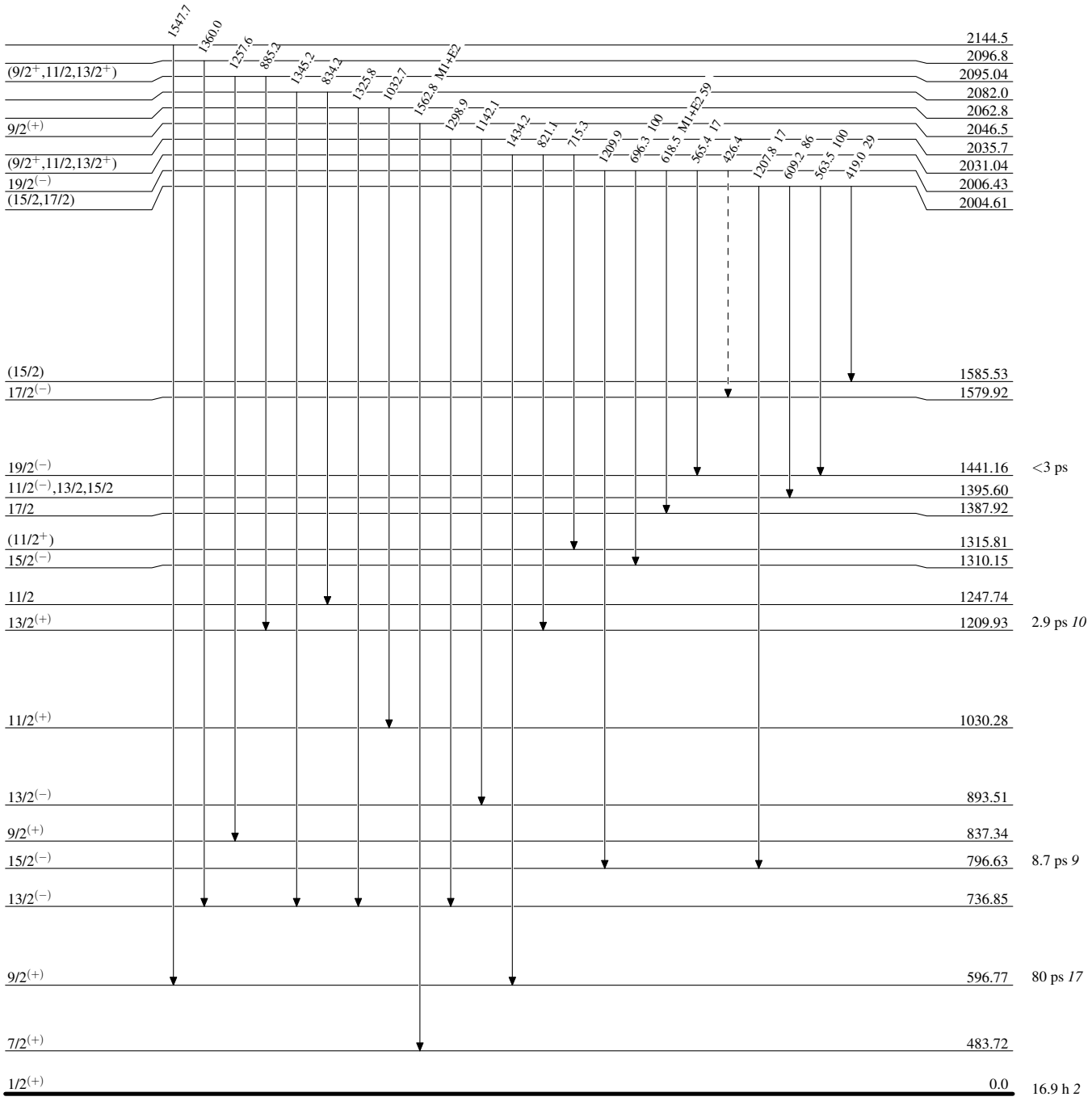
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

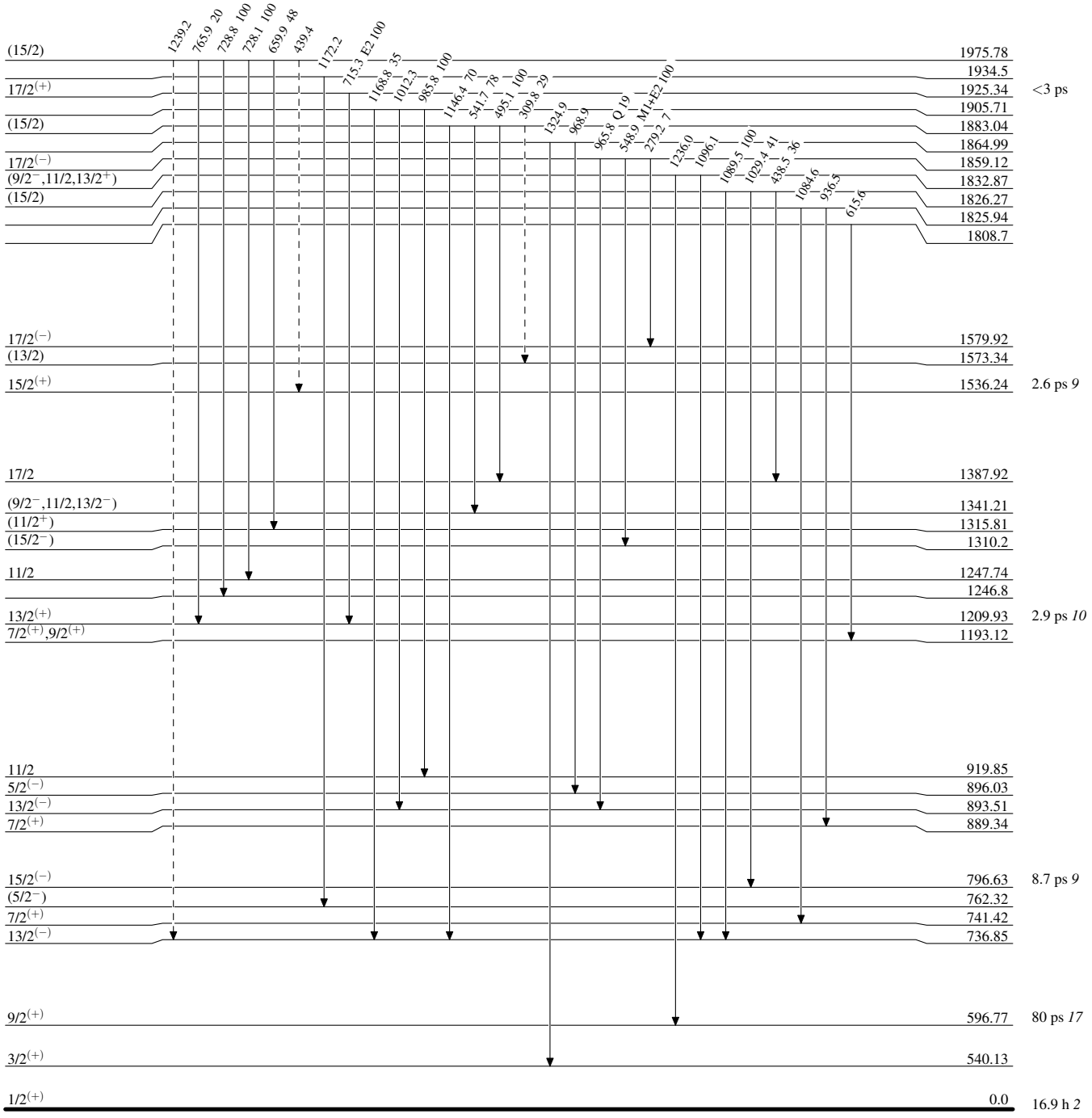
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

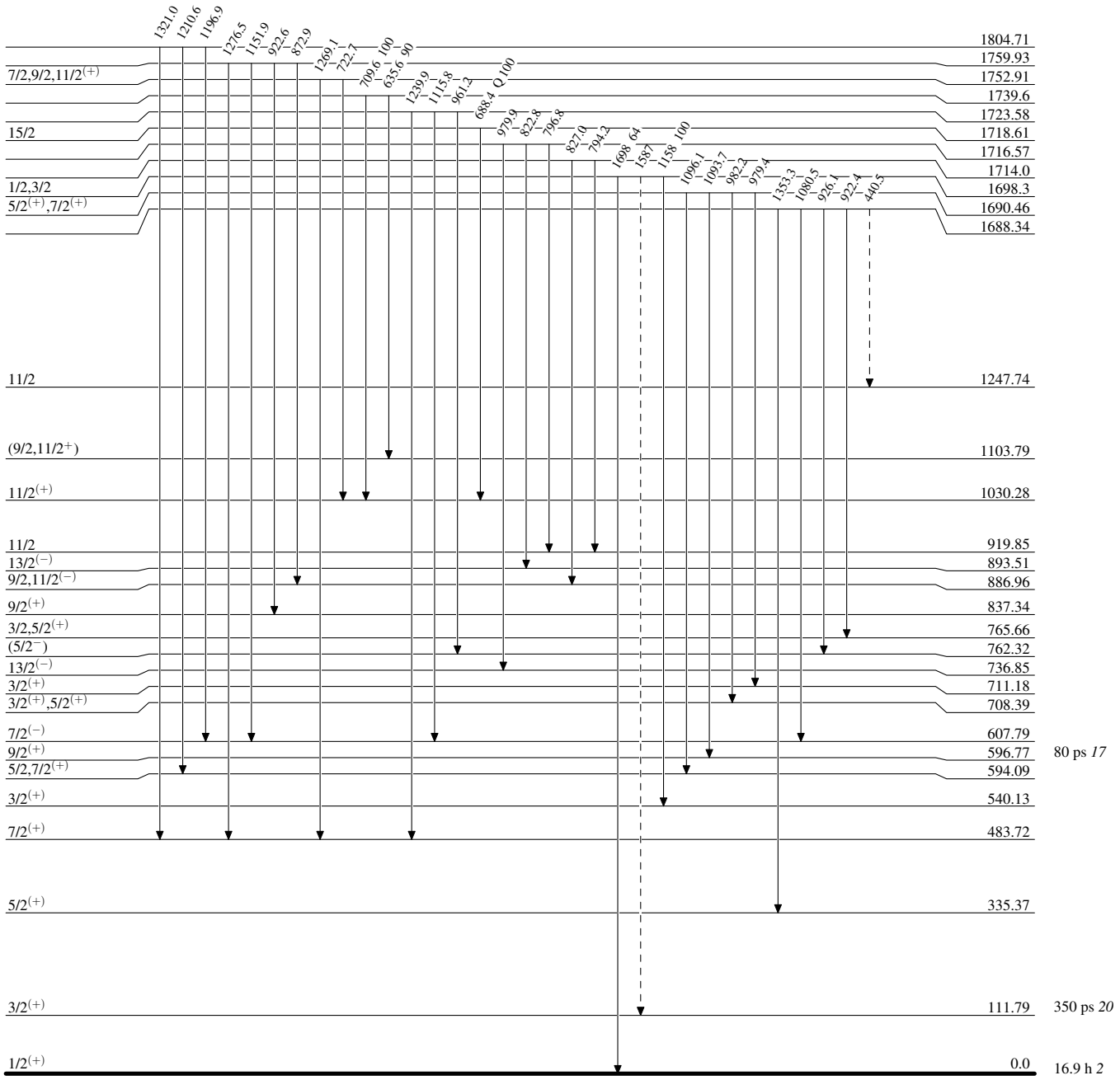
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)

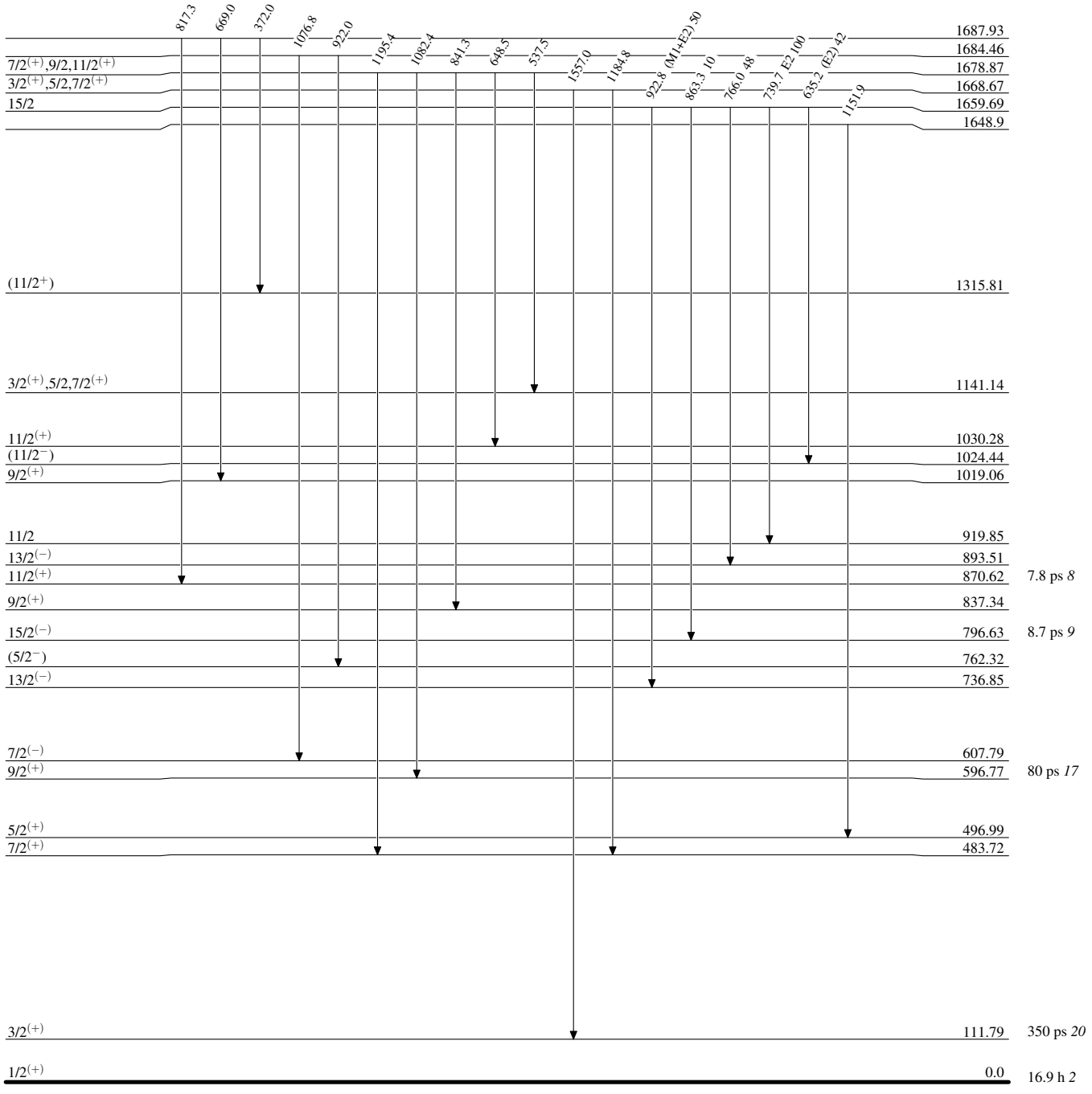


$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

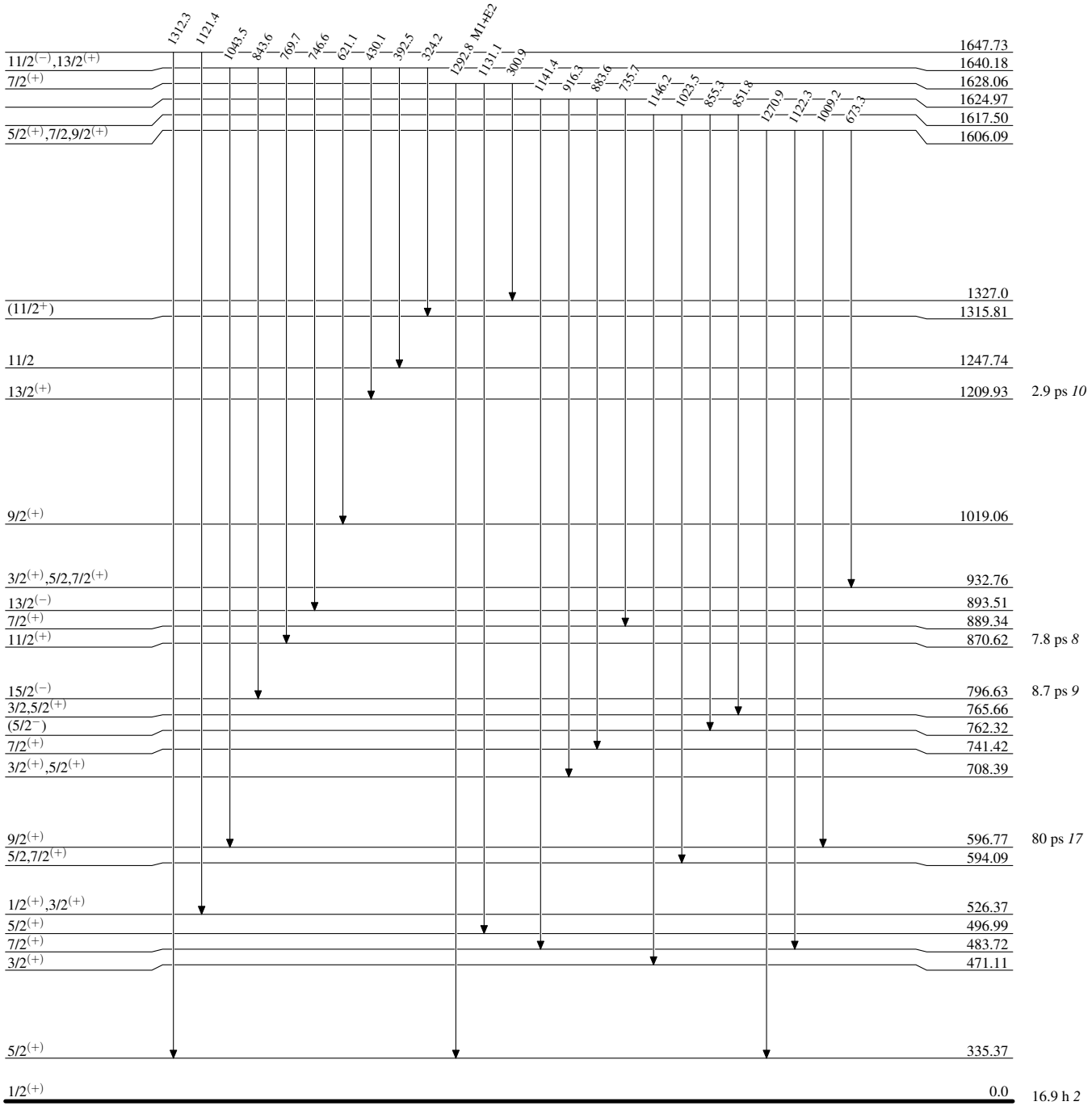


$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

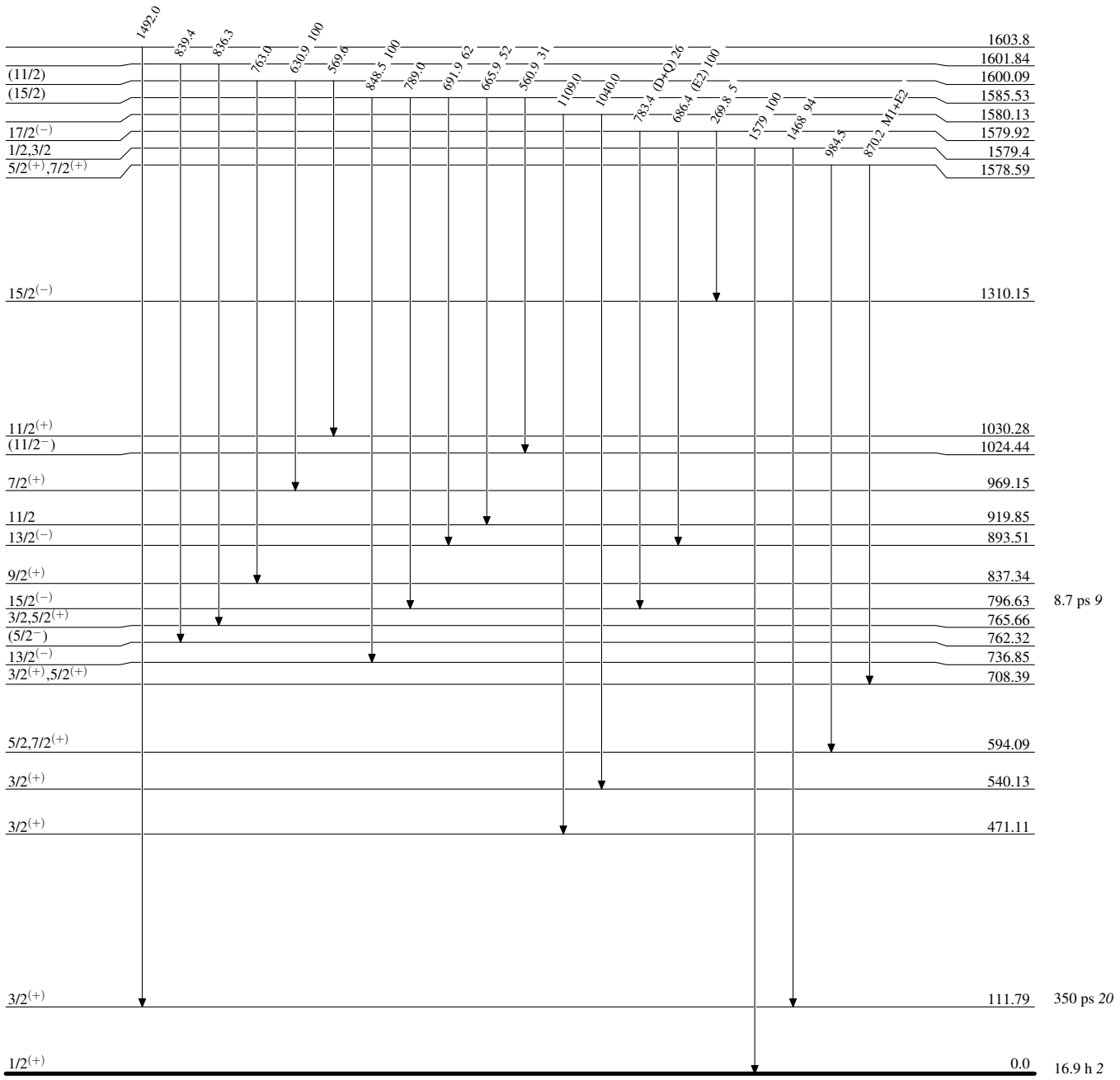


$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{125}_{54}Xe_{71}$

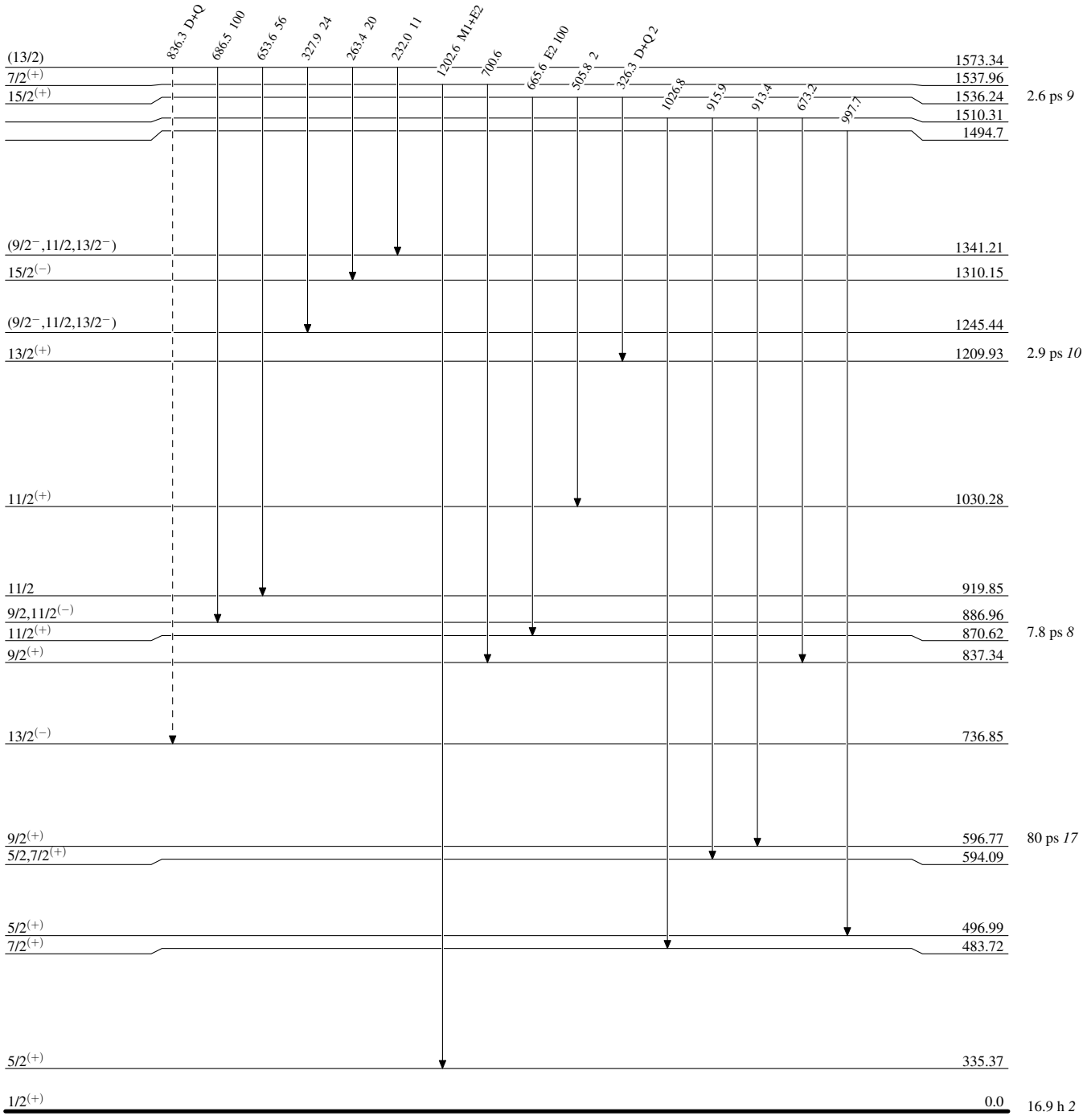
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

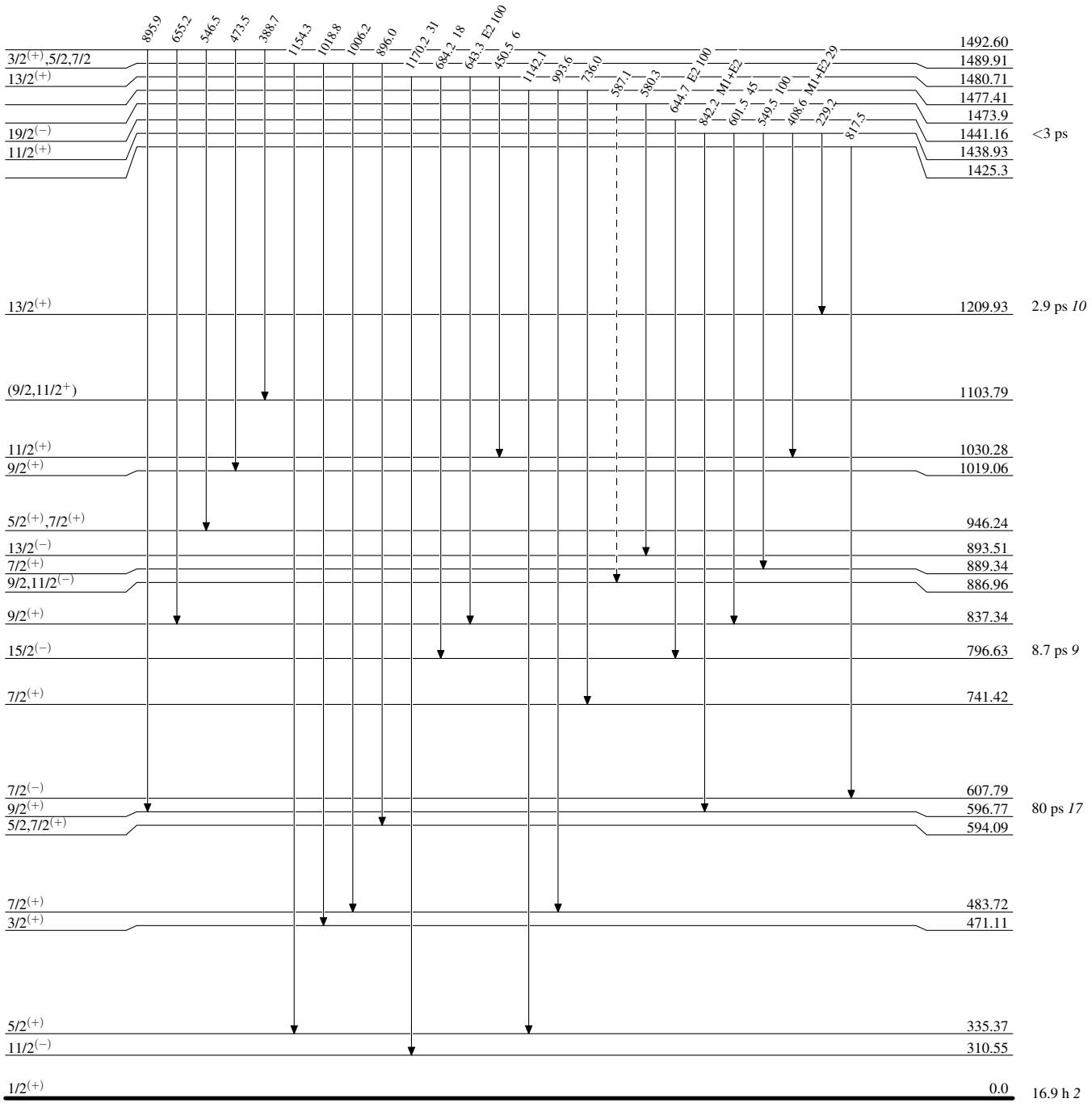
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

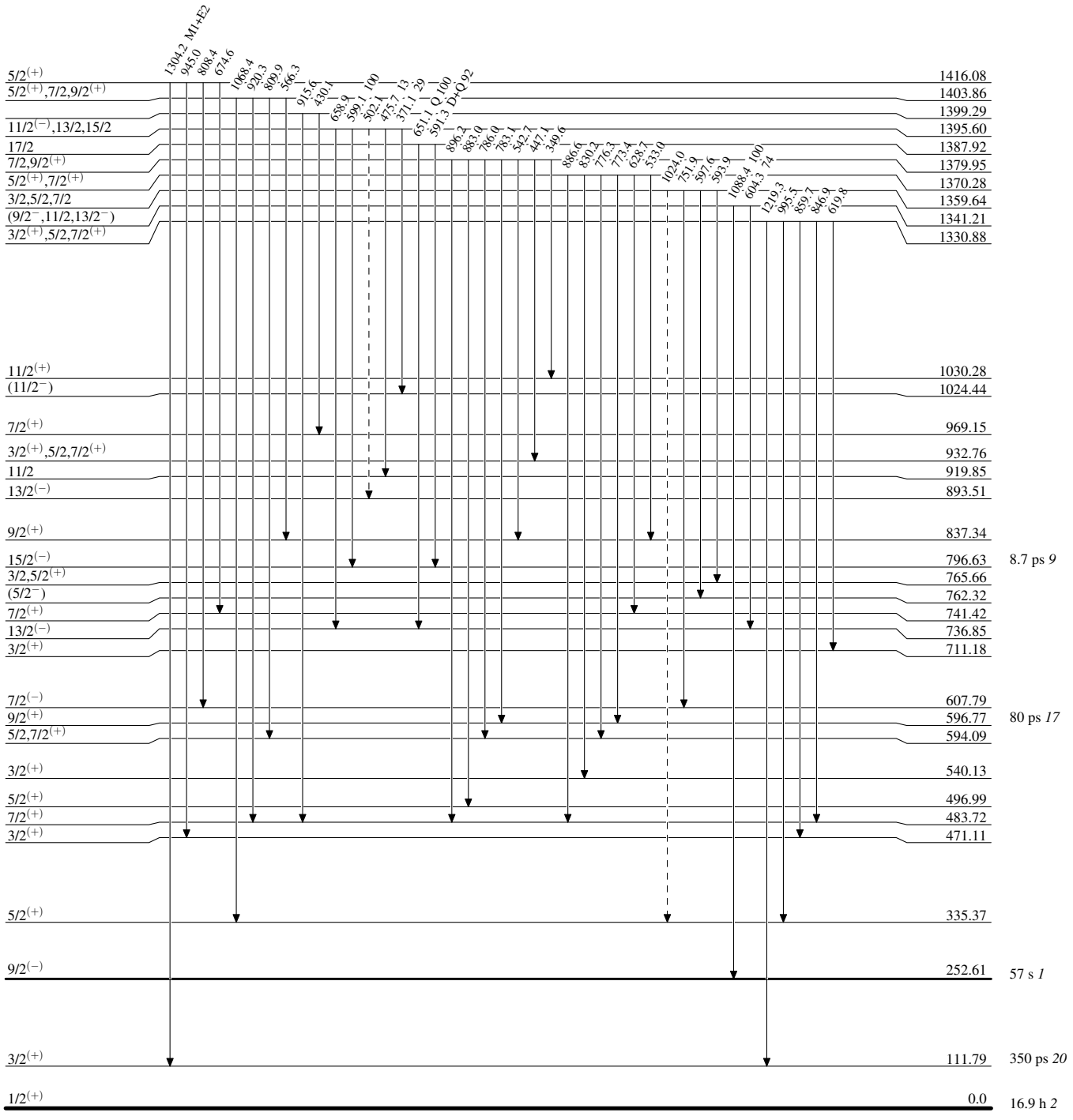
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)

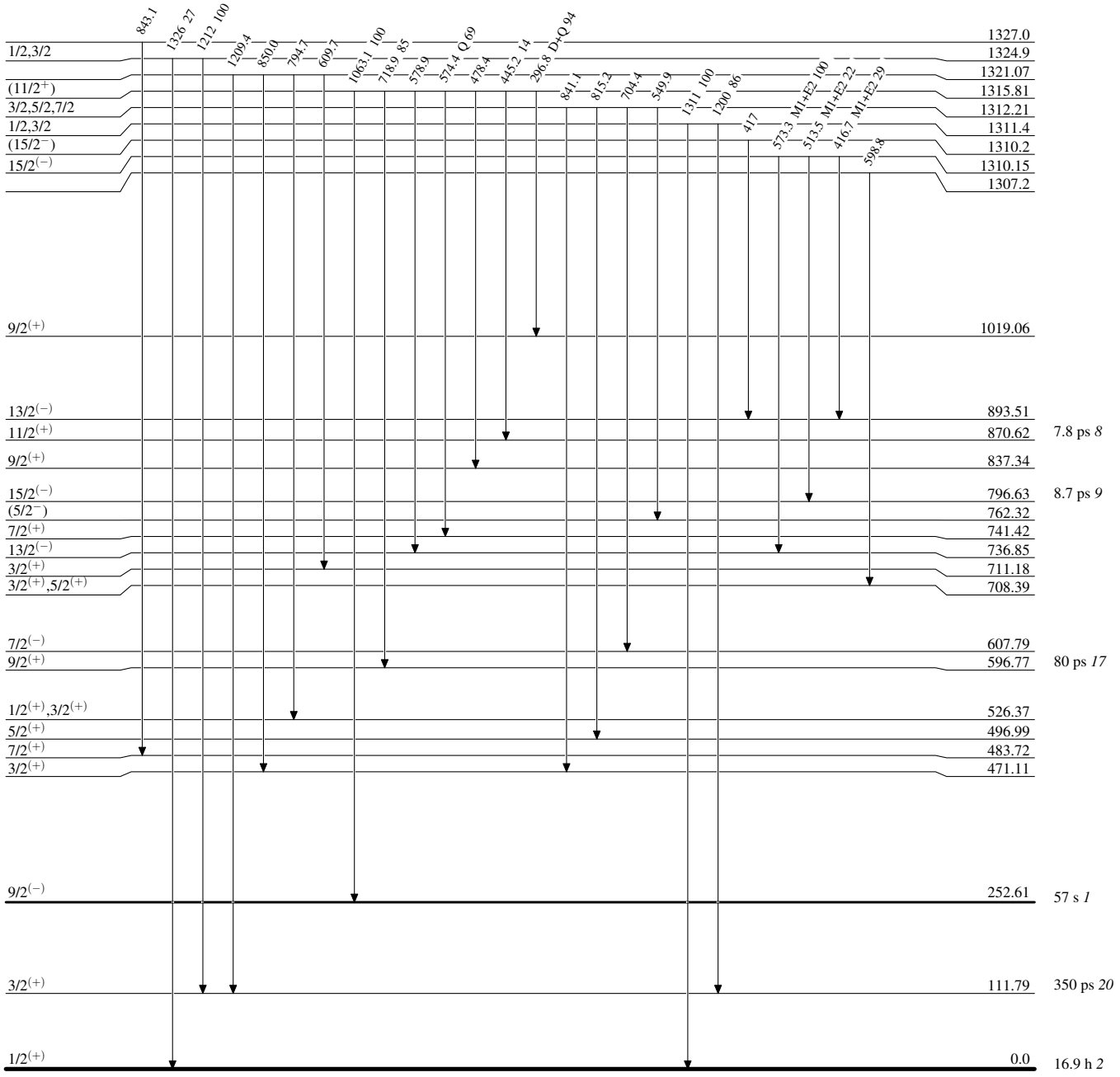


$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{125}_{54}Xe_{71}$

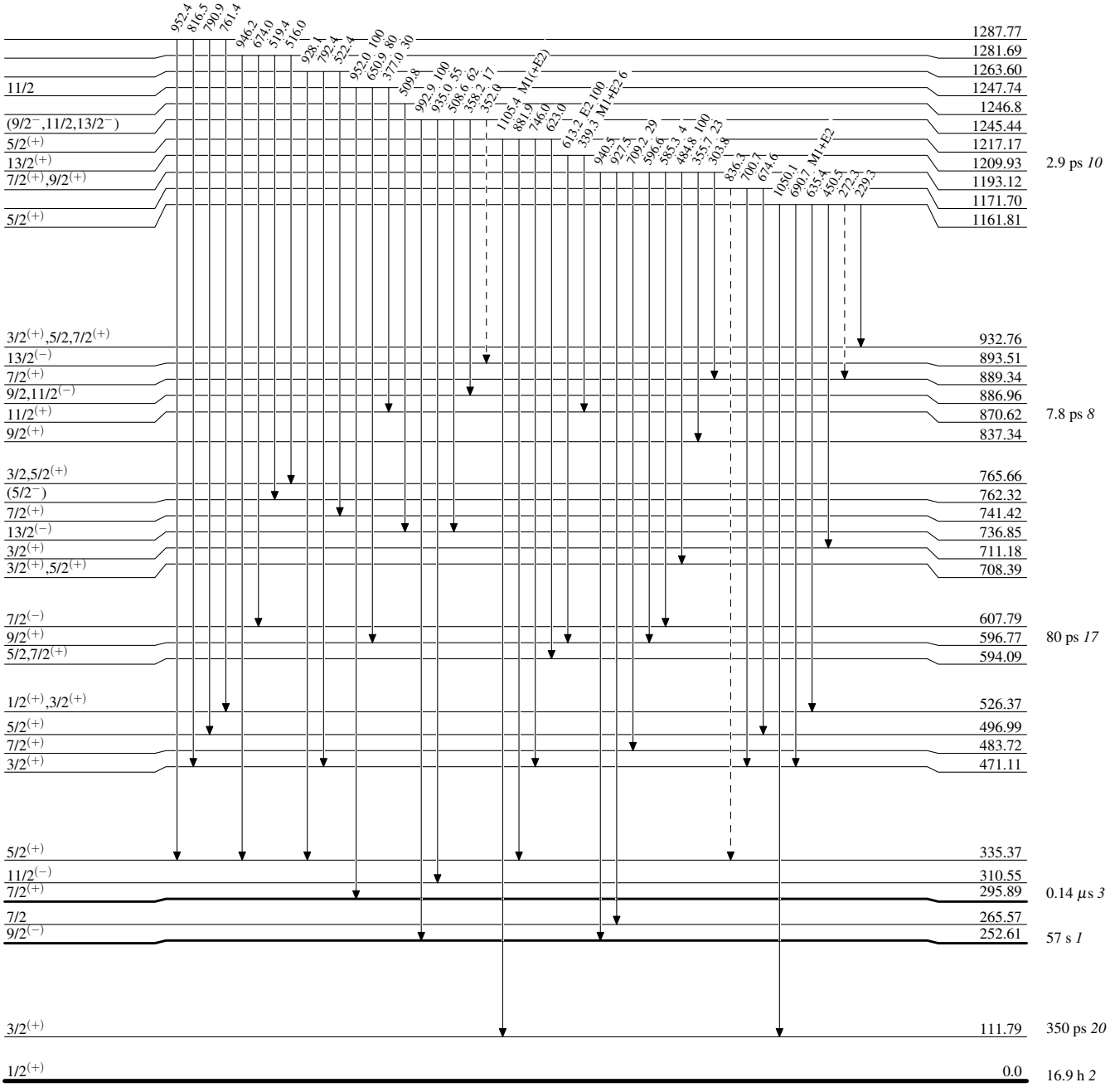
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

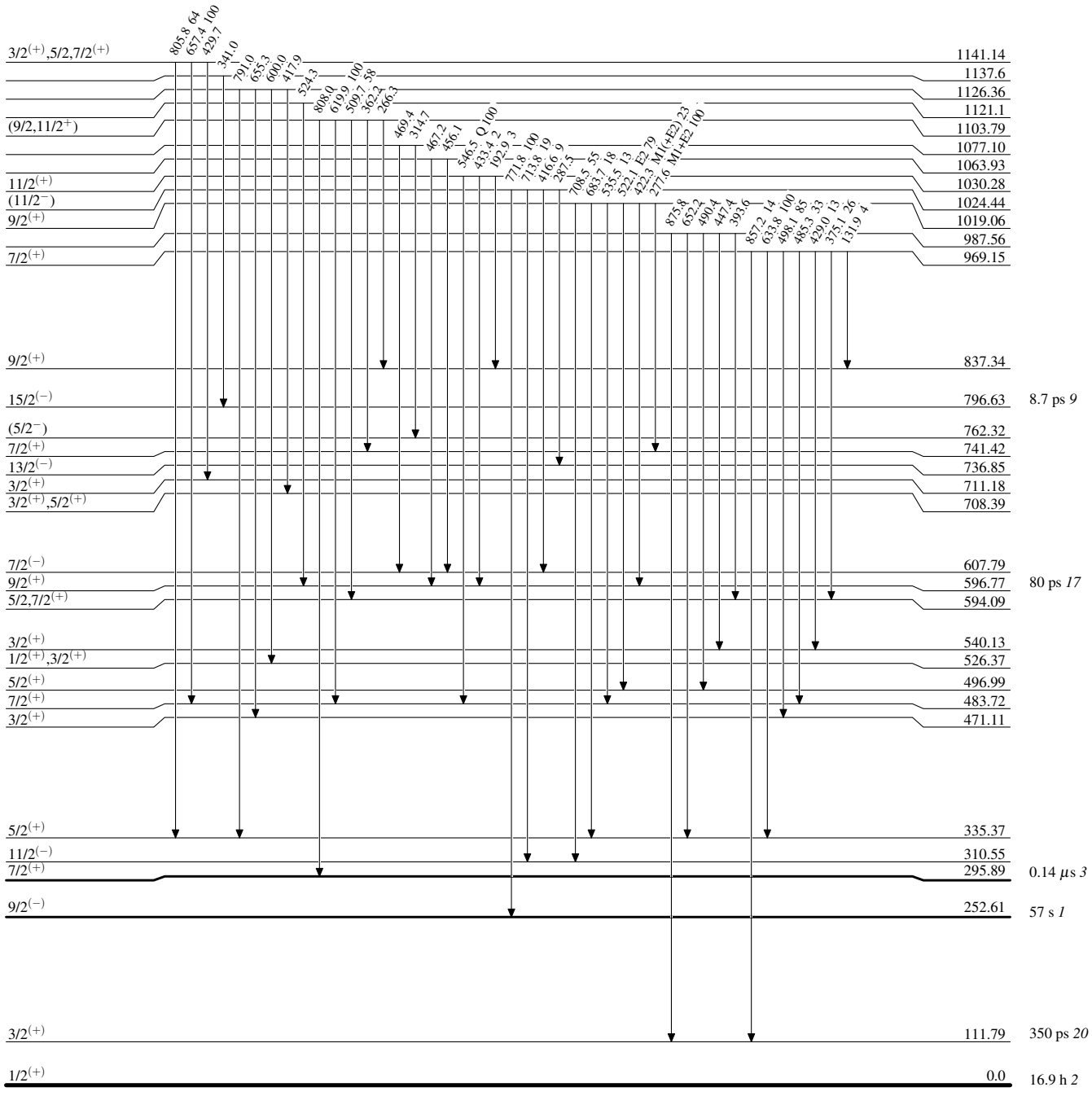


$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



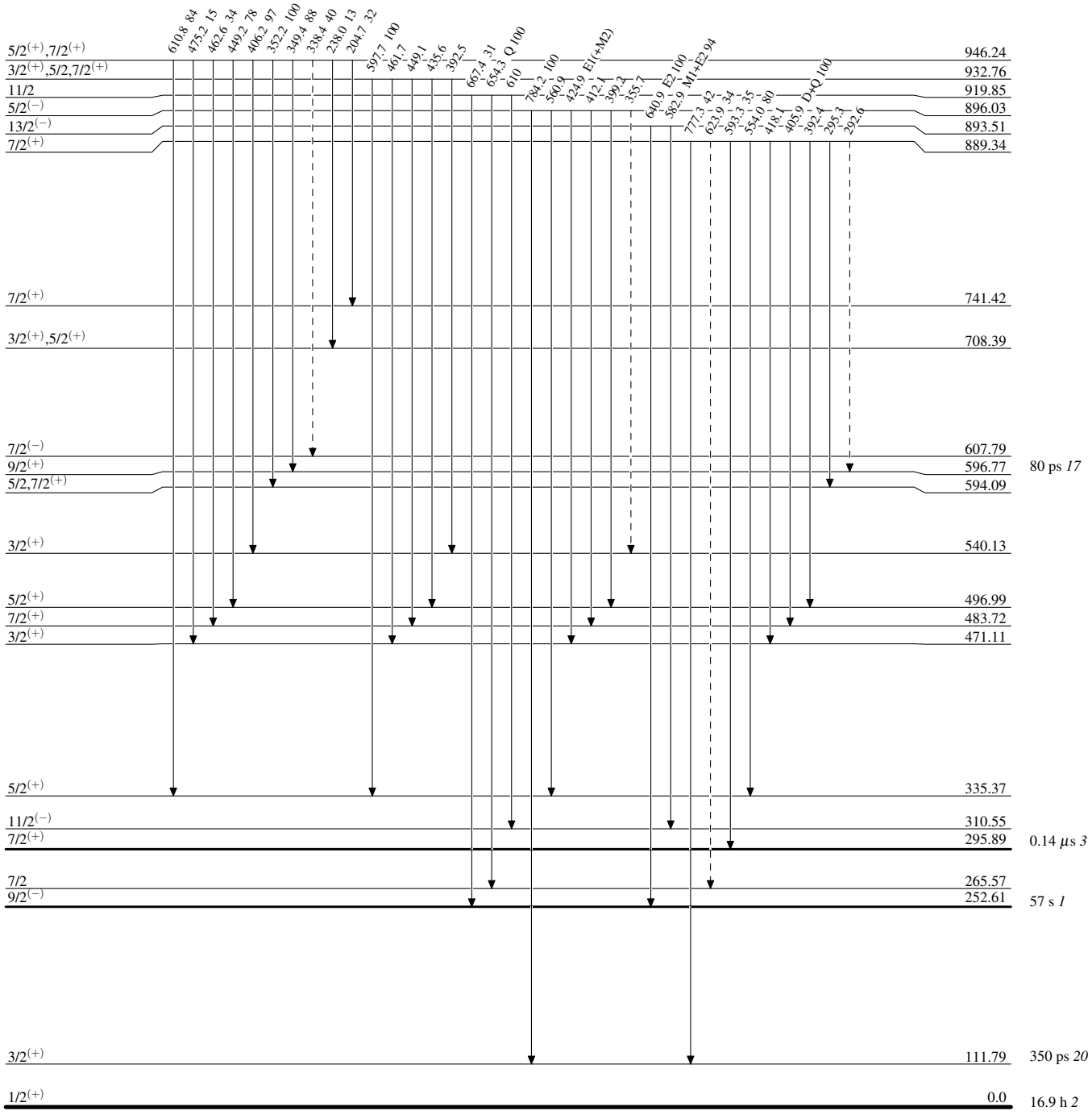
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

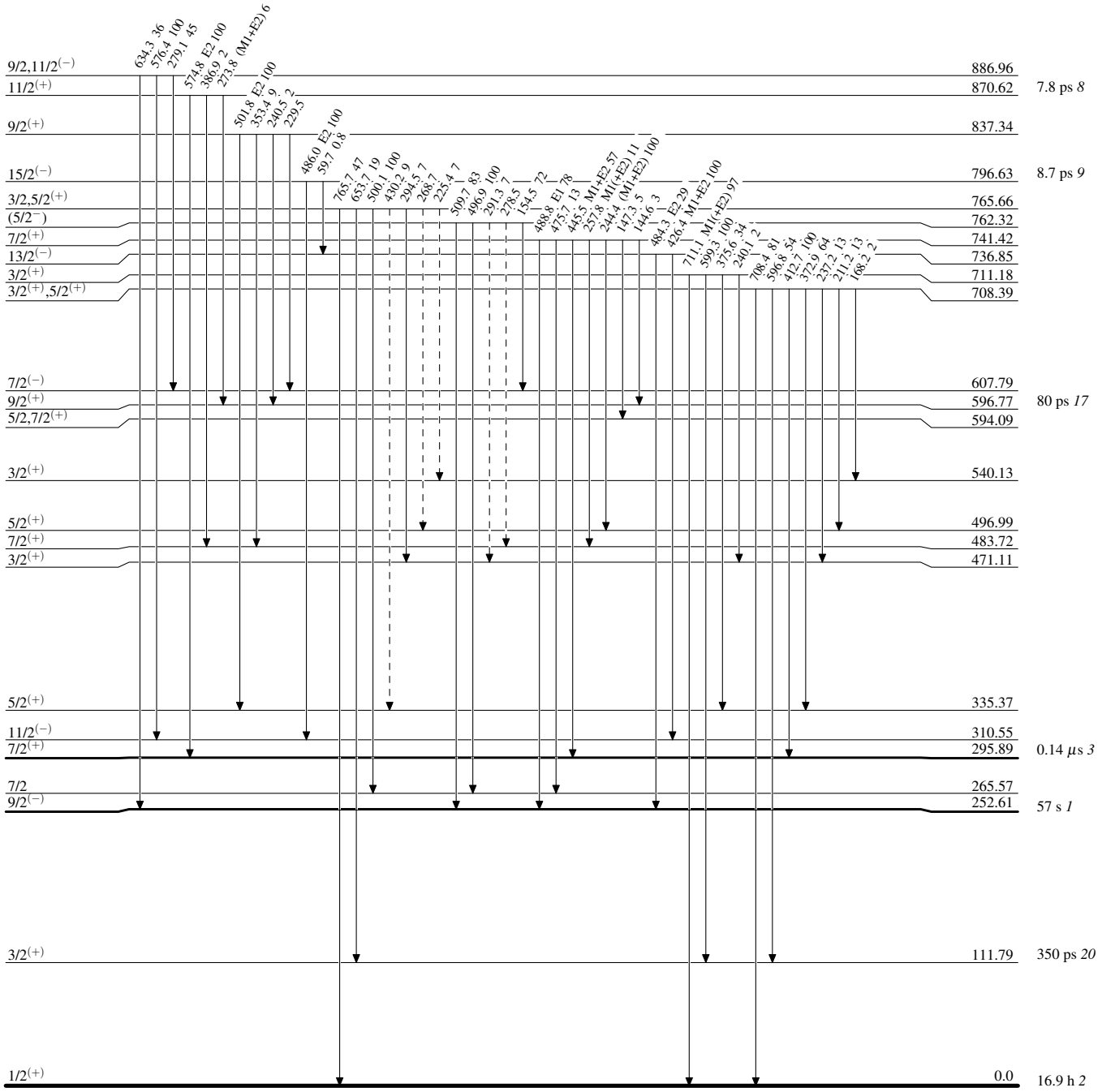
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{125}_{54}Xe_{71}$

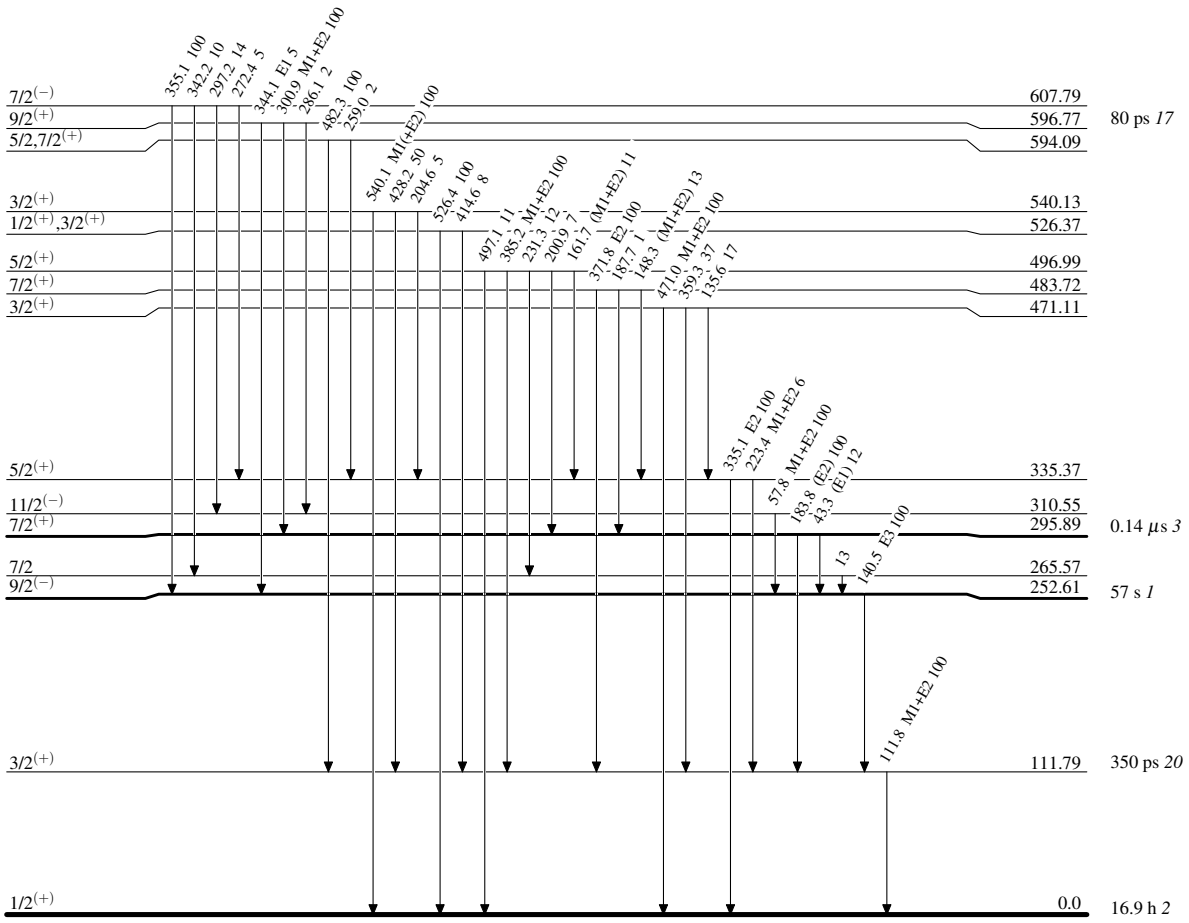
Adopted Levels, Gammas

Legend

Level Scheme (continued)

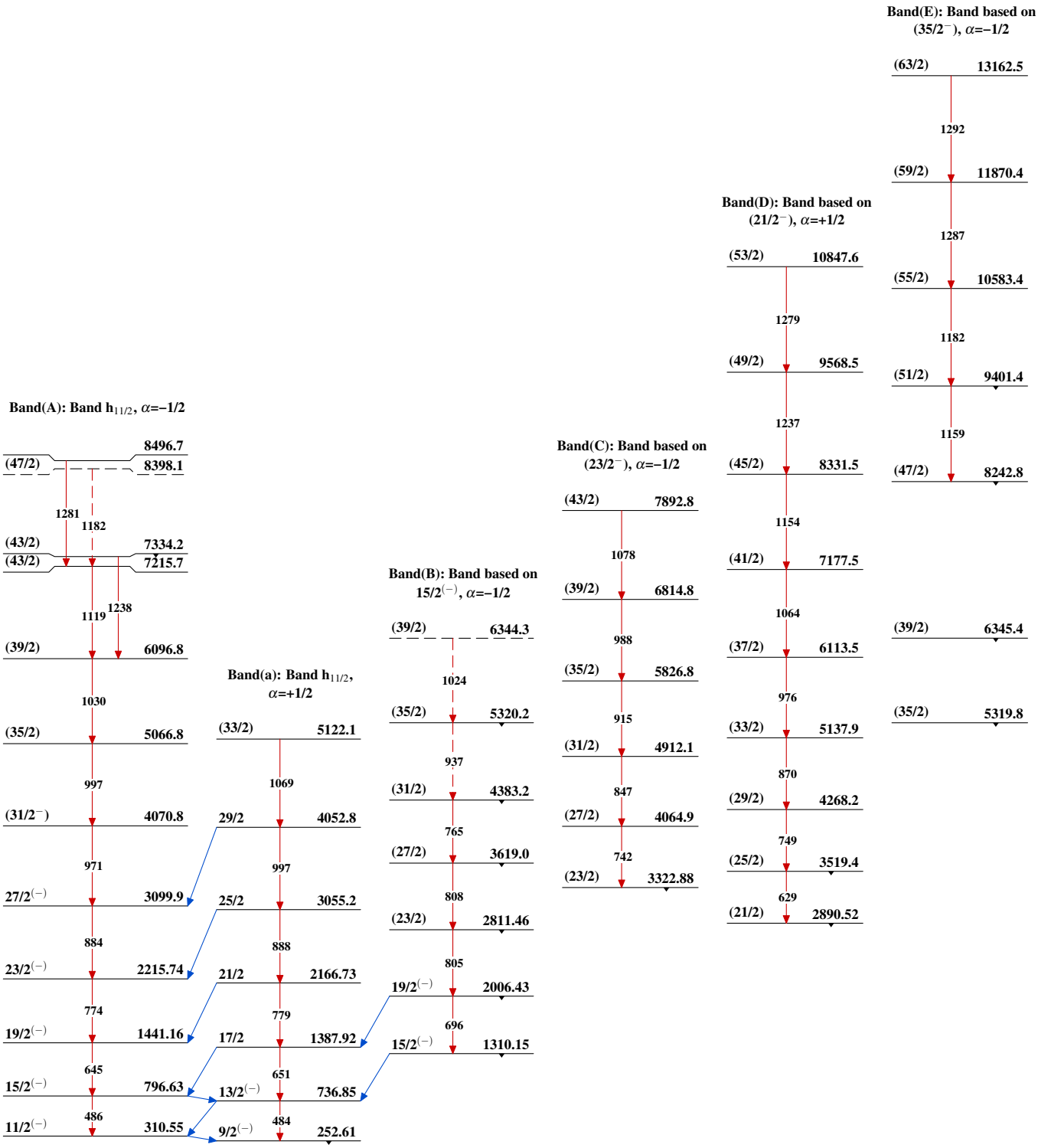
Intensities: Relative photon branching from each level

γ Decay (Uncertain)



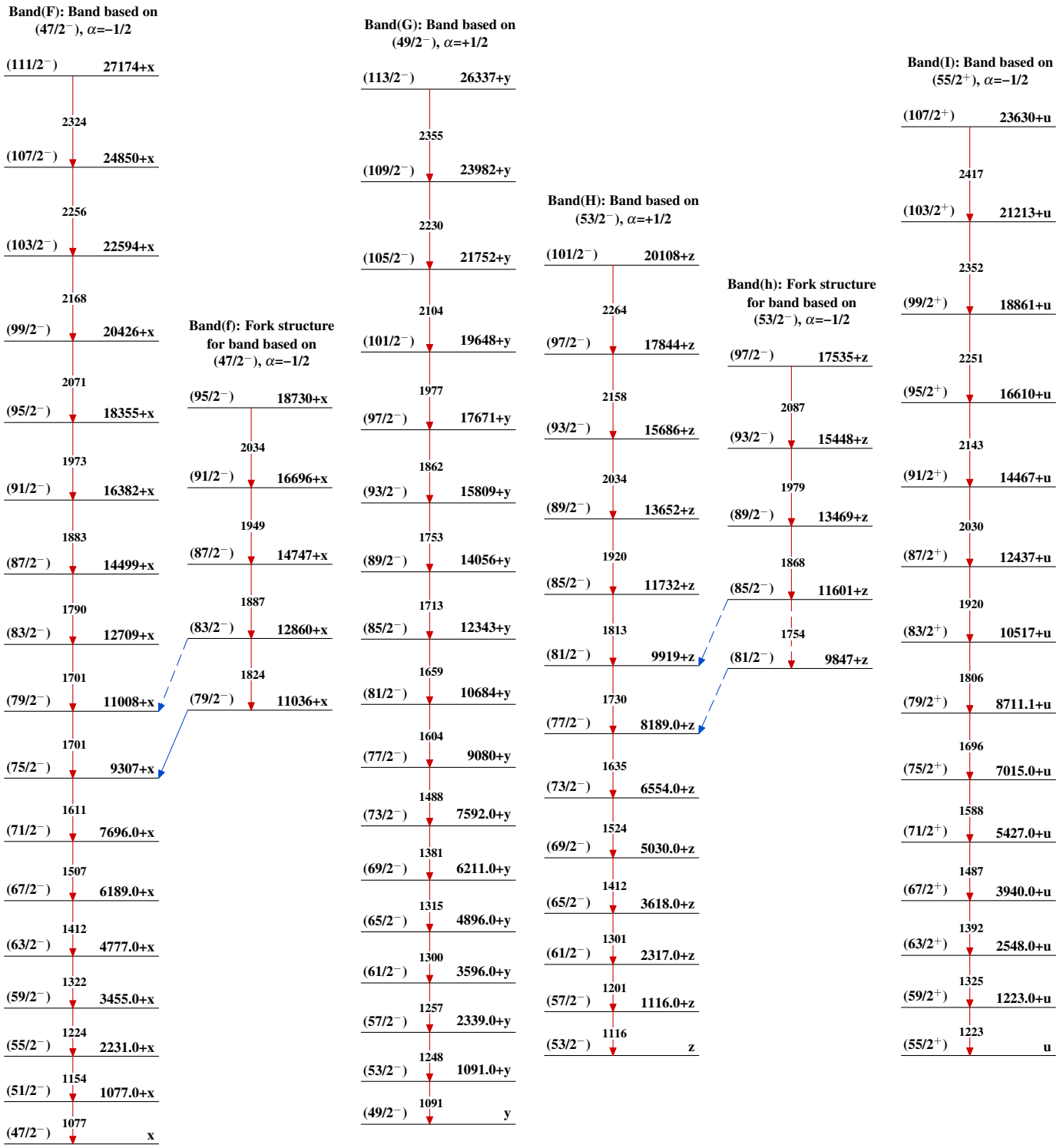
$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas



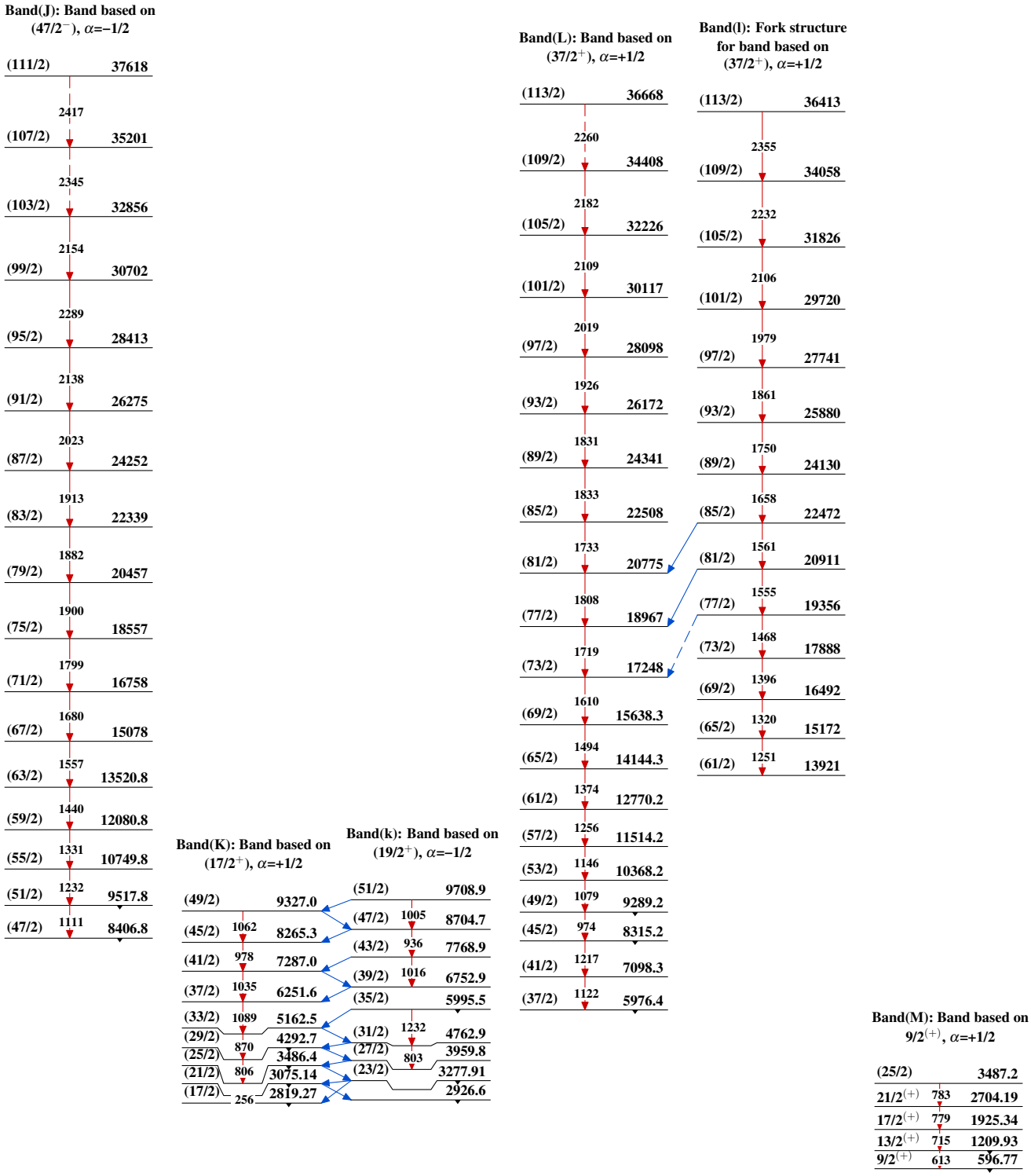
$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas (continued)

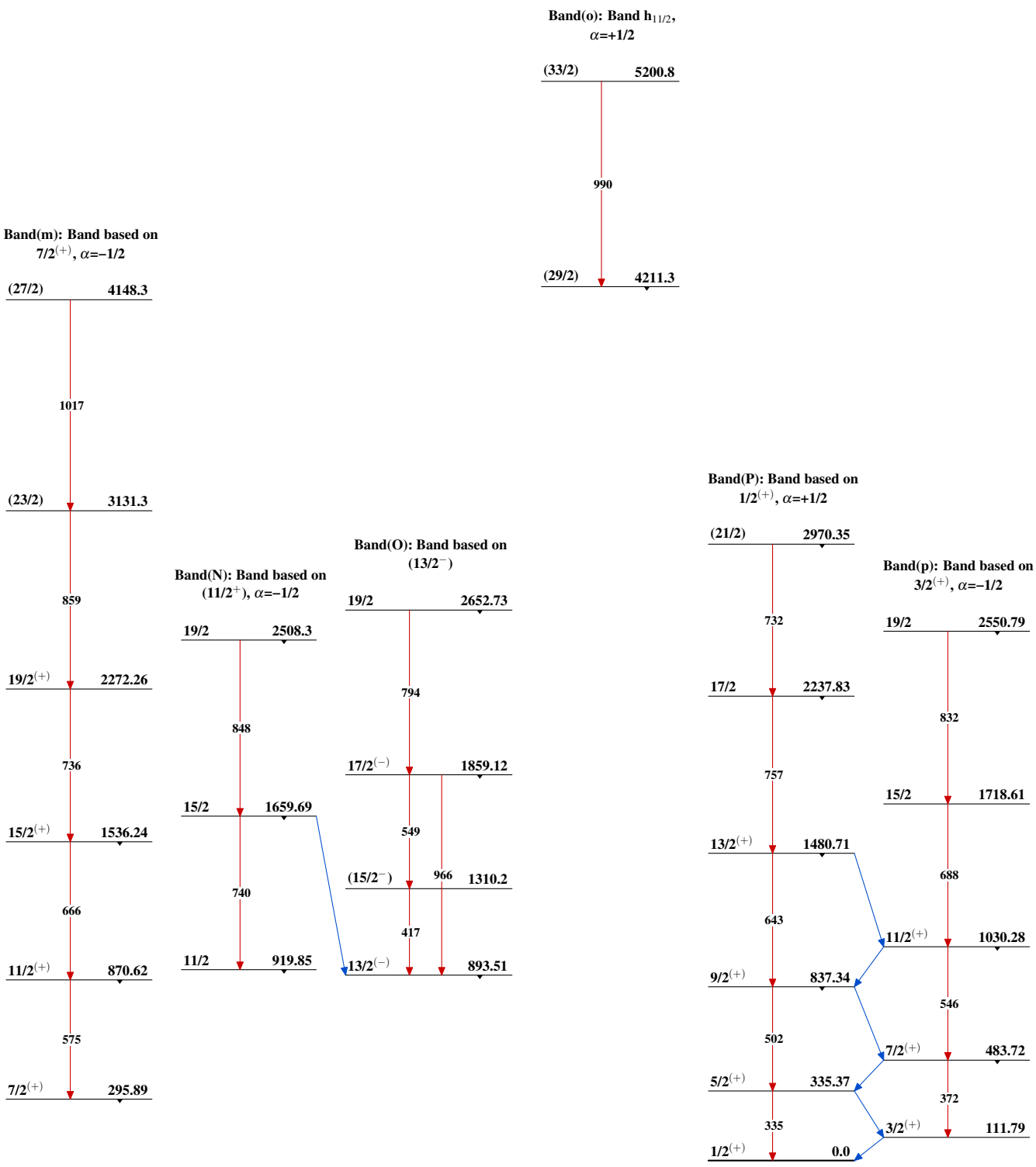


$^{125}_{54}Xe_{71}$

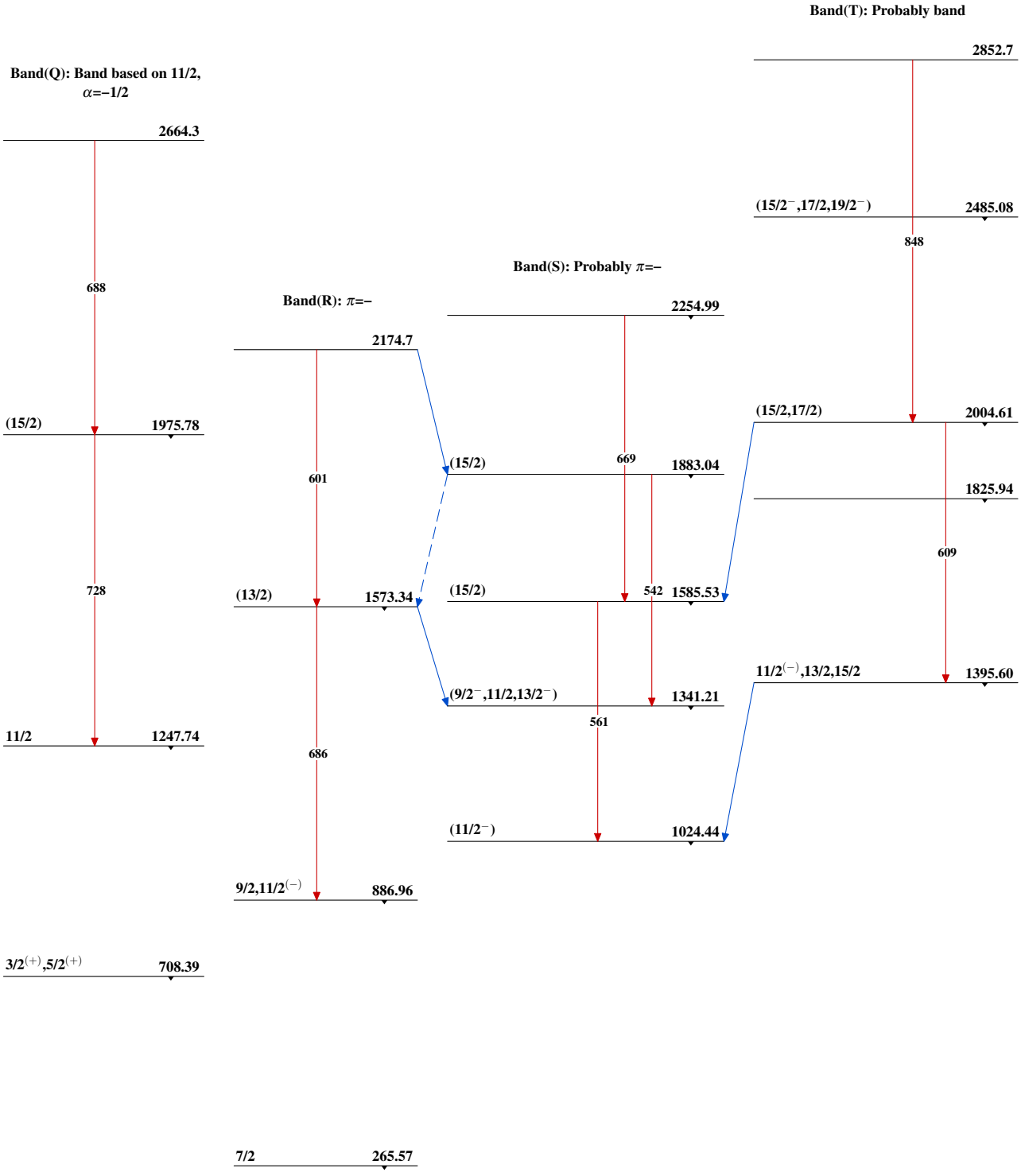
Adopted Levels, Gammas (continued)



Adopted Levels, Gammas (continued)

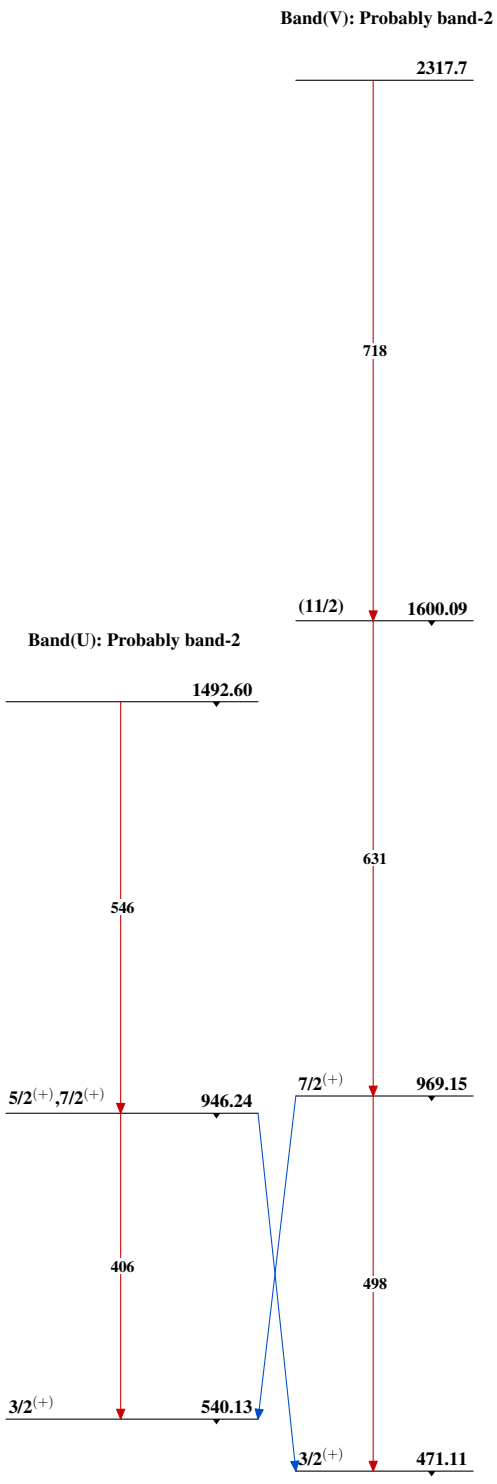


Adopted Levels, Gammas (continued)



$^{125}_{54}Xe_{71}$

Adopted Levels, Gammas (continued)



$^{125}_{54}Xe_{71}$