Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111,1619 (2010)	20-Jan-2009

Q(β^-)=−2.29×10^3 *3*; S(n)=7.25×10^3 *3*; S(p)=7.42×10^3 *3*; Q(α)=−5.7×10^2 *3* 2012Wa38
Note: Current evaluation has used the following Q record −2292 26 *7247* 26 *7405* 27 −565 26 2009AuZZ.

^{121}Te Levels

Cross Reference (XREF) Flags

A	^{121}Te IT decay	E	^{116}Cd(^{9}Be,4nγ)	I	^{122}Te(pol d,t)
B	^{121}I ε decay	F	^{122}Te(p,d)	J	^{127}I(μ^-,NU6NG)
C	^{119}Sn(α,2nγ),^{121}Sb(d,2nγ)	G	^{120}Te(d,p)	K	^{120}Te(n,γ)
D	^{114}Cd(^{11}B,p3nγ),	H	^{122}Te(^{3}He,α)		

E(level)†	Jπ‡	$T_{1/2}$	XREF	Comments
0.0	1/2$^+$	19.17 d *4*	ABC EFGHIJK	%ε+%β^+=100 Configuration=(ν 3s$_{1/2}$) Jπ: L=0 in (d,p), (^{3}He,α). $T_{1/2}$: from weighted average of 19.16 d *5* (1995Si30) and 19.2 d *1* (2008Ea01); others: 16.78 d *35* (1973Ka45), 17 d *1* (1963Bh04,1946Ed03).
212.191[d] *17*	3/2$^+$	0.062 ns *15*	ABC EFGHIJK	$T_{1/2}$: from (ce 82γ)(ce 212γ)(t) in IT decay (1963Sc12). Jπ: L=2 in (d,p), (^{3}He,α),(pol d,t); M1+E2 γ to 1/2$^+$.
293.974[@] *22*	11/2$^-$	164.2 d *8*	ABCDEFGHI K	%IT=88.6 *11*; %ε+%β^+=11.4 *11* μ=0.895 *10*; Configuration=(ν 1h$_{11/2}$) μ: N/RD (2005St24); reference to μ=+0.605 *4* for ^{125}Te (36 keV). Jπ: L=5 in (d,p),(pol d,t); M4 γ to 3/2$^+$. $T_{1/2}$: from 2008Ea01. Others: 154 d 7 (1963Bh04), 125 d (1940Se01), 143 d *5* (1946Ed03), 140 d (1951Co34), 154 d (1951Hi80).
438.52[@] *5*	(9/2)$^-$		BCDE I	Jπ: from (pol d,t). J=9/2 is consistent with band structure.
443.11[c] *3*	7/2$^+$	85.3 ns *5*	BC EFGhI	μ=+0.738 *10* XREF: h(450). $T_{1/2}$: from γ(t) (1980Io01). Jπ: E2 γ to 3/2$^+$; L=4 in (p,d),(pol d,t), J=7/2 is consistent with band structure. μ: DPAD (2005St24); others: +0.774 *11* (DPAD), +0.63 *7* (DPAD) (2005St24).
475.243[d] *23*	5/2$^+$		BC EFGhI	Configuration=(ν 2d$_{5/2}$) XREF: h(450). Jπ: from (pol d,t) band structure.
532.052 *24*	3/2$^+$		BC EFG I	Jπ: from (pol d,t).
538.69[@] *5*	7/2$^-$		BC I	Jπ: L=3 in (pol d,t), γ to 11/2$^-$.
594.489[b] *25*	5/2$^+$		BC E GHI	Jπ: from (pol d,t).
614 *5*	3/2$^+$,5/2$^+$		F	Jπ: L=2 in (p,d).
660 *20*			H	
681.28 *6*	1/2$^+$		B G I	XREF: I(678.2). Jπ: L=0 in (d,p).
683.05[d] *3*	(7/2)$^+$		BC E I	Jπ: from (pol d,t).
698 *10*	3/2$^+$,5/2$^+$		F	Jπ: L=2 in (p,d).
756.1 *6*	(5/2)$^+$		I	Jπ: from (pol d,t).
757.95 *6*	(7/2$^-$)		BC	

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Adopted Levels, Gammas (continued)

^{121}Te Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
806.69 *5*	3/2$^+$	B ghI	XREF: g(809)h(810). Jπ: from (pol d,t).
810.92 *3*	(5/2$^+$,7/2$^+$)	B gh	XREF: g(809)h(810). Jπ: (M1) γ to 3/2$^+$,5/2$^+$; log *ft*=6.5 from 5/2$^+$.
827 *5*	3/2$^+$,5/2$^+$	F	Jπ: L=2 in (p,d).
830.53[c] *10*	(9/2)$^+$	BC E	
887.65[b] *6*	(7/2$^+$)	BC E I	
912.22 *4*	5/2$^+$	B HI	Jπ: from (pol d,t).
925.62[@] *10*	(15/2)$^-$	CDE	
925.7 *7*	(5/2)$^-$	G I	Jπ: from (pol d,t).
941.0 *8*	3/2$^+$,5/2$^+$	F I	Jπ: L=2 in (p,d).
970 *20*		H	
975.27[@] *9*	(13/2)$^-$	CDE	
994.02 *4*	3/2$^+$,5/2$^+$	B I	Jπ: from (pol d,t).
1018.44[d] *15*	(9/2$^+$)	C EFG I	Jπ: L=4 in (p,d), band structure; however, L=(5) in (pol d,t).
1043.0 *5*	5/2$^+$	I	Jπ: from (pol d,t).
1050.7 *6*	(5/2)$^-$	I	Jπ: from (pol d,t).
1079.0 *6*		I	
1080.29[c] *10*	(11/2$^+$)	C E	
1108.2 *10*	1/2$^+$	I	Jπ: from (pol d,t).
1119.4 *6*	7/2$^+$	I	Jπ: from (pol d,t).
1148.65 *4*	5/2$^+$	B GhI	XREF: h(1150). Jπ: from (pol d,t).
1161.6 *5*	(7/2$^+$,9/2$^+$)	I	Jπ: from (pol d,t).
1170.19 *6*	3/2$^+$,5/2$^+$	B FGhI	XREF: h(1150). Jπ: from (pol d,t).
1171.06[b] *19*	(9/2$^+$)	C Ef	XREF: f(1170). Jπ: L=4 component in (p,d) and band argument.
1172.86 *5*	(5/2$^-$,7/2$^+$)	B f h	XREF: f(1170)h(1150). Jπ: γ′s to 3/2$^+$ and (9/2)$^-$.
1177.44[#] *14*	(11/2$^-$)	C E I	
1185.58 *10*		B	
1208.05[d] *10*	(11/2$^+$)	C E	
1226.88 *3*	5/2$^+$	B I	Jπ: from (pol d,t).
1251.5 *7*	1/2$^+$	FGHI	Jπ: L=0 in (d,p).
1281.5 *6*	1/2$^-$	G I	Jπ: from (pol d,t).
1306.34 *4*	3/2	B I	Jπ: 3/2$^+$ from (pol d,t), however 711.69 keV (E1) transition to 5/2$^+$ in ε decay suggests 3/2$^-$.
1324.65 *12*	(3/2$^+$,5/2$^+$)	B H	Jπ: L=(2) in (^{3}He,α).
1340.63 *5*	5/2$^+$	B G I	Jπ: from (pol d,t).
1363.96 *4*	3/2$^+$,5/2$^+$	B FGHI	Jπ: from (pol d,t).
1388.6 *6*		I	
1400.2 *7*	5/2$^-$	I	Jπ: from (pol d,t).
1404 *6*	1/2$^-$,3/2$^-$	G	Jπ: L=1 in (d,p).
1410.6 *9*		I	
1419.47[c] *12*	(13/2$^+$)	C E	
1437.18 *6*		B	
1449 *2*		I	E(level): doublet (1447+1451).
1473.2[b] *3*	(11/2$^+$)	E	
1486.62 *4*	(7/2)$^+$	B Fg	XREF: g(1486). Jπ: L=4 in (p,d); log *ft*=6.8 from 5/2$^+$.
1487.0 *6*	(3/2)$^+$	g I	XREF: g(1486). Jπ: from (pol d,t).

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Adopted Levels, Gammas (continued)

^{121}Te Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
1505.0 *6*		I	
1516 *6*	3/2+,5/2+	Fgh	XREF: g(1516)h(1520). Jπ: L=2 in (p,d).
1517.2 *5*	5/2−	ghI	XREF: g(1516)h(1520). Jπ: from (pol d,t).
1540.19 *13*		B	
1551.2 *6*	1/2−	G I	Jπ: from (pol d,t).
1575.8 *5*	3/2+,5/2+	g I	XREF: g(1579). Jπ: from (pol d,t).
1579 *6*	(7/2+,9/2+)	Fg	XREF: g(1579). Jπ: L=(4) in (p,d).
1591.0 *5*	5/2−	I	Jπ: from (pol d,t).
1599.63[@] *12*	(17/2−)	CDE	
1607.4[d] *4*	(13/2+)	E	
1626.37 *6*		B gh	XREF: g(1627)h(1629).
1627.2 *5*	7/2−	ghI	XREF: g(1627)h(1629). Jπ: from (pol d,t).
1641.6 *6*		I	Jπ: from (pol d,t).
1654.32[@] *13*	(19/2)−	CDE	
1657.2 *8*	(5/2−)	I	Jπ: from (pol d,t). E(level): doublet (1655+1660).
1669 *10*	7/2+,9/2+	F h	XREF: h(1680). Jπ: L=4 in (p,d).
1680.6 *5*	1/2+	ghI	XREF: g(1683)h(1680). Jπ: from (pol d,t).
1681.03 *5*	3/2,5/2+	B gh	XREF: g(1683)h(1680). Jπ: log *ft*=6.8 from 5/2+; γ to 1/2+.
1693.4 *5*	5/2+	I	Jπ: from (pol d,t).
1703.0 *6*	7/2+,9/2+	F I	Jπ: from (pol d,t).
1711.88[c] *14*	(15/2+)	C E	
1730.71 *5*	3/2,5/2+	B G	Jπ: log *ft*=6.7 from 5/2+; γ to 1/2+.
1739.6 *6*		I	
1754.5 *5*	1/2+	GhI	XREF: h(1760). Jπ: from (pol d,t).
1769.4 *6*	(11/2)−	hI	XREF: h(1760). Jπ: from (pol d,t).
1771 *10*	3/2+,5/2+	F h	XREF: h(1760). Jπ: L=2 in (p,d).
1789.3[b] *3*	(13/2+)	E	
1806.0 *7*	1/2−	GhI	XREF: h(1820). Jπ: from (pol d,t).
1806.77[d] *21*	(15/2+)	C E	
1823.3 *3*	(17/2−)	E	
1824.2 *7*	(9/2)−	hI	XREF: h(1820). Jπ: from (pol d,t).
1832.0 *5*	3/2+,5/2+	GhI	XREF: h(1820). Jπ: L=2 in (d,p).
1841.6 *6*	3/2+	I	Jπ: from (pol d,t).
1851.44 *17*		C	
1854.9 *5*	1/2+	F I	Jπ: from (pol d,t).
1869.6 *5*	1/2−	G I	Jπ: from (pol d,t).
1879.5 *6*	3/2+	I	Jπ: from (pol d,t).
1886.8 *6*	1/2−	I	Jπ: from (pol d,t).
1900.0 *7*	3/2+,5/2+	I	Jπ: from (pol d,t).

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Adopted Levels, Gammas (continued)

^{121}Te Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
1913.23 *12*		B f	XREF: f(1917).
1920.1 *5*	3/2+	f I	XREF: f(1917). Jπ: from (pol d,t).
1943 *6*		G	
1953.1 *5*	1/2+	I	Jπ: from (pol d,t).
1973.2 *5*	3/2+	I	Jπ: from (pol d,t).
1989.5 *6*	3/2+,5/2+	G I	Jπ: from (pol d,t).
1994.0[#] *3*	(15/2−)	E	
1995.4 *6*	(5/2−)	I	Jπ: from (pol d,t).
2005.9 *7*		I	
2016.05[@] *14*	(21/2)−	CDE	Probable admixture of non-collective configuration=$((\pi\ 1g_{7/2})^{+2}_{6+}(\nu\ 1h_{11/2}))$, J^π=21/2−.
2026.0 *6*	(3/2)+	I	Jπ: from (pol d,t).
2046.2 *15*	(5/2)−	hI	XREF: h(2060). Jπ: from (pol d,t).
2049 *6*	1/2−,3/2−	Gh	XREF: h(2060). Jπ: L=1 in (d,p).
2059.3 *6*	7/2+,9/2+	F I	Jπ: L=4 in (p,d).
2070.36[c] *22*	(17/2+)	C E	
2077.1 *7*	(−)	G I	Jπ: L=(3) in (d,p),L=(5) in (pol d,t).
2106.4 *7*	(3/2+,5/2+)	I	Jπ: from (pol d,t).
2112.3 *6*	3/2−	G I	Jπ: from (pol d,t).
2119.1[b] *4*	(15/2+)	E	
2129.1 *6*	(11/2)−	I	Jπ: from (pol d,t).
2136.4 *9*	(9/2)−	I	Jπ: from (pol d,t).
2143 *10*	7/2+,9/2+	F	Jπ: L=4 in (p,d).
2146 *6*	(3/2+,5/2,7/2−)	G	Jπ: L=(2,3) in (d,p).
2149.1 *6*	1/2+	I	Jπ: from (pol d,t).
2169.5 *6*		I	
2187.8 *6*	(3/2)+	G I	Jπ: from (pol d,t).
2215.9 *6*	3/2+,5/2+	I	Jπ: from (pol d,t).
2236.1 *5*	3/2+,5/2+	I	Jπ: from (pol d,t).
2247.8 *5*	1/2−	G I	Jπ: from (pol d,t).
2281.55 *17*	(23/2+)	C	Jπ: E1 γ to (21/2)−.
2284.3 *6*	5/2+	G I	Jπ: from (pol d,t).
2292.5 *6*	3/2+,5/2+	I	Jπ: from (pol d,t).
2310 *10*	+	F	Jπ: L=2+4 in (p,d).
2317.5 *15*	11/2−	I	Jπ: from (pol d,t).
2332.21[@] *16*	(23/2)−	CDE	Probable admixture of non-collective configuration=$((\pi\ 1g_{7/2})^{+2}_{6+}(\nu\ 1h_{11/2}))$, J^π=23/2−.
2339.3 *8*	3/2+,5/2+	G I	Jπ: L=2 in (d,p) and (pol d,t).
2360.1 *6*	3/2+,5/2+	I	Jπ: from (pol d,t).
2376 *6*	3/2+,5/2+	G	Jπ: L=2 in (d,p).
2389.4 *7*	3/2+	I	Jπ: from (pol d,t).
2396.1[d] *5*	(17/2+)	E	
2406.8 *8*	11/2−	g I	XREF: g(2416). Jπ: from (pol d,t).
2414.7 *6*	7/2+,9/2+	Fg I	XREF: g(2416). Jπ: L=4 in (p,d).
2422.2 *5*	(21/2−)	E	
2426.5 *7*	1/2−	I	Jπ: from (pol d,t).
2441 *6*	(5/2−,7/2−)	G	Jπ: L=(3) in (d,p).
2456.9 *5*	3/2+,5/2+	F I	Jπ: from (pol d,t).
2469.8[c] *4*	(19/2+)	E	

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Adopted Levels, Gammas (continued)

^{121}Te Levels (continued)

E(level)[†]	Jπ[‡]	XREF	Comments
2486 *6*	(5/2⁻,7/2⁻)	G	Jπ: L=(3) in (d,p).
2516.2 *5*	1/2⁻	I	Jπ: from (pol d,t).
2536.8 *7*	(1/2⁻,3/2⁻)	g I	XREF: g(2538). Jπ: from (pol d,t).
2548 *10*		Fg	XREF: g(2538).
2549.9 *6*	3/2⁺	I	Jπ: from (pol d,t).
2568.8 *8*	1/2⁺	G I	Jπ: from (pol d,t).
2582.6[d] *5*	(19/2⁺)	E	
2600.2 *7*		G I	
2611.7 *7*	(3/2)⁺	f I	XREF: f(2620). Jπ: from (pol d,t).
2630.2 *9*		f I	XREF: f(2620).
2641.5 *7*	(5/2)⁺	I	Jπ: from (pol d,t).
2679.5[a] *3*	(19/2⁻)	E	
2716.96[@] *23*	(23/2⁻)	DE	
2725 *6*		G	
2854.1[#] *3*	(19/2⁻)	E	
2857 *6*		G	
2896 *6*		G	
2915.0[c] *5*	(21/2⁺)	E	
2933 *6*		G	
2937.0[a] *5*	(21/2⁻)	E	
2952.73[&] *25*	(23/2,25/2)	CDE	Jπ: 25/2⁻ assigned in ^{114}Cd(^{11}B,p3nγ) from mult.(939γ)=(E1), while 23/2⁺ assigned in ^{116}Cd(^{9}Be,4nγ) from mult.(937γ)=(E2).
2966 *6*	(1/2⁻,3/2⁻)	G	Jπ: L=(1) in (d,p).
2996.5 *5*	(21/2)	E	
3027 *6*		G	
3057 *6*		G	
3073.2 *7*	(25/2⁻)	E	
3136.45[@] *21*	(25/2⁻)	DE	
3228.9[d] *7*	(21/2⁺)	E	
3255.0[a] *5*	(23/2⁻)	E	
3320.8[c] *6*	(23/2⁺)	E	
3321.0 *5*	(23/2)	E	
3389.0[d] *6*	(23/2⁺)	E	
3401.8[@] *3*	(27/2⁻)	DE	
3423.8[#] *4*	(23/2⁻)	E	
3432 *6*		G	
3443.1 *6*		E	
3461 *6*		G	
3496 *6*		G	
3536 *6*		G	
3594.8 *6*		E	
3613 *6*		G	
3642.6[a] *5*	(25/2⁻)	E	
3655.4 *5*	(27/2⁻)	E	
3671.2[&] *3*	(27/2,29/2)	DE	
3715 *6*		G	
3779.2[c] *6*	(25/2⁺)	E	
3834.0 *5*		E	
3935.3 *3*	(29/2)	D	
3936.9 *5*		E	

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Adopted Levels, Gammas (continued)

^{121}Te Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	XREF	Comments
3956 *6*		G	
4083.1[a] *5*	(27/2$^-$)	E	
4146.8[c] *7*	(27/2$^+$)	E	
4188.0[#] *6*	(27/2$^-$)	E	
4238.2[@] *3*	(29/2$^-$)	DE	
4372.4[@] *4*	(31/2$^-$)	DE	
4411.3[&] *4*	(31/2)	DE	
4442.7 *5*		E	
4520.2 *4*		D	
4785.2[@] *3*	(33/2$^-$)	DE	
4898.4 *4*	(33/2)	DE	
5012.7[&] *6*		E	
5020.7[&] *4*	(35/2)	DE	
5179.3[@] *4*	(35/2$^-$)	DE	Probable admixture of non-collective configuration=$((\pi\ 1g_{7/2})^{+2}_{6+}(\nu\ 1h_{11/2})^{+3}_{25/2-})$, J^{π}=35/2$^-$.
5281.2 *7*		E	
5308.6 *4*		DE	
5503.5 *6*		E	
5533.4[@] *4*	(39/2$^-$)	DE	Probable admixture of non-collective configuration=$((\pi\ 1g_{7/2})^{+2}_{6+}(\nu\ 1h_{11/2})^{+3}_{27/2-})$, J^{π}=39/2$^-$.
5689.1[@] *4*	(37/2)	DE	
5906.5[@] *5*	(39/2)	D	
6545.2[@] *6*	(41/2)	D	
6774.1[@] *5*	(43/2$^-$)	D	
7059.8[@] *7*	(43/2$^-$)	D	
7061.8[@] *6*	(47/2)	D	Probable admixture of non-collective configuration=$((\pi\ 1g_{7/2})^{+2}_{6+}(\nu\ 1h_{11/2})^{+5}_{35/2-})$, J^{π}=47/2$^-$.
7106.9[@] *7*		D	
7671.2[@] *7*		D	
7683.6[@] *7*		D	
8292.5[@] *7*	(51/2$^-$)	D	
8583.2[@] *8*		D	

[†] E(levels) with γ decay are from least-squares fit to Eγ's.
[‡] From rotational band arguments based on shell model configurations; band structures evidenced from M1, M1+E2 (D(+Q)) cascades, and E2(Q) cross over transitions, and available information from in-beam studies, except where noted otherwise.
[#] Band(A): γ vibrational band on $1h_{11/2}$.
[@] Band(B): built on $1h_{11/2}$.
[&] Band(C): 3quαsi-particle configuration. π=− in ^{116}Cd(^{9}Be,4nγ), whereas π=(+) in ^{114}Cd(^{11}B,p3nγ) with different spin sequence.
[a] Band(D): Built on (19/2$^-$) level. Possible 3quasi-particle configuration.
[b] Band(E): built on $2d_{5/2}$.
[c] Band(F): built on $1g_{7/2}$.
[d] Band(G): built on $2d_{3/2}$.

Adopted Levels, Gammas (continued)

$\gamma(^{121}Te)$

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	δ[a]	α[b]	Comments
212.191	$3/2^+$	212.19 *3*	100 *2*	0.0	$1/2^+$	M1+E2	+0.226 *8*	0.0869 *1*	α(K)=0.0747 *11*; α(L)=0.00982 *14*; α(M)=0.00196 *3*; α(N+..)=0.000429 *7* α(N)=0.000387 *6*; α(O)=4.16×10^{-5} *6* B(M1)(W.u.)=0.033 *8*; B(E2)(W.u.)=27 *7* Mult.,δ: from ^{121}Te IT decay.
293.974	$11/2^-$	81.788 *18*	100	212.191	$3/2^+$	M4		1735	α(K)=677 *10*; α(L)=820 *12*; α(M)=197 *3*; α(N+..)=41.2 *6* α(N)=37.9 *6*; α(O)=3.25 *5* B(M4)(W.u.)=3.18 *7*
438.52	$(9/2)^-$	144.58 *5*	100	293.974	$11/2^-$	M1+E2	−0.29 *10*	0.259 *13*	α(K)=0.220 *9*; α(L)=0.031 *4*; α(M)=0.0063 *7*; α(N+..)=0.00137 *14* α(N)=0.00124 *13*; α(O)=0.000130 *11*
443.11	$7/2^+$	230.95 *5*	100	212.191	$3/2^+$	E2		0.0918	α(K)=0.0749 *11*; α(L)=0.01353 *19*; α(M)=0.00276 *4*; α(N+..)=0.000581 *9* α(N)=0.000530 *8*; α(O)=5.07×10^{-5} *8* B(E2)(W.u.)=0.2602 *16*
475.243	$5/2^+$	263.07 *7*	6.8 *4*	212.191	$3/2^+$	M1(+E2)		0.054 *6*	α(K)=0.045 *4*; α(L)=0.0068 *16*; α(M)=0.0014 *4*; α(N+..)=0.00029 *7* α(N)=0.00027 *6*; α(O)=2.7×10^{-5} *5* Mult.: from D(+Q) and no parity change of relevant states.
		475.28 *4*	100 *4*	0.0	$1/2^+$	(E2)		0.00942 *14*	α(K)=0.00801 *12*; α(L)=0.001134 *16*; α(M)=0.000228 *4*; α(N+..)=4.91×10^{-5} *7* α(N)=4.45×10^{-5} *7*; α(O)=4.60×10^{-6} *7* Conflicting mult. proposed M1+E2 in ^{121}I $\varepsilon+\beta^+$ decay and (E2) in (α,2nγ).
532.052	$3/2^+$	56.8 *1*	0.97 *8*	475.243	$5/2^+$	[M1,E2]		8 *5*	α(K)=4.6 *16*; α(L)=2.9 *25*; α(M)=0.6 *6*; α(N+..)=0.12 *11* α(N)=0.11 *10*; α(O)=0.009 *8*
		319.90 *4*	15.4 *7*	212.191	$3/2^+$	M1,E2		0.0302 *13*	α(K)=0.0256 *7*; α(L)=0.0036 *5*; α(M)=0.00073 *11*; α(N+..)=0.000158 *21* α(N)=0.000143 *20*; α(O)=1.49×10^{-5} *14*
		532.08 *4*	100 *4*	0.0	$1/2^+$	E2		0.00686 *10*	α(K)=0.00585 *9*; α(L)=0.000808 *12*; α(M)=0.0001621 *23*; α(N+..)=3.50×10^{-5} *5* α(N)=3.17×10^{-5} *5*; α(O)=3.31×10^{-6} *5*
538.69	$7/2^-$	244.75 *6*	100	293.974	$11/2^-$	[E2]		0.0755	α(K)=0.0619 *9*; α(L)=0.01089 *16*; α(M)=0.00222 *4*; α(N+..)=0.000468 *7* α(N)=0.000427 *6*; α(O)=4.11×10^{-5} *6*
594.489	$5/2^+$	62.7 *2*	0.5 *3*	532.052	$3/2^+$				
		151.3 *1*	2.3 *4*	443.11	$7/2^+$				
		382.25 *4*	100 *5*	212.191	$3/2^+$	M1		0.0184	α(K)=0.01589 *23*; α(L)=0.00199 *3*; α(M)=0.000396 *6*; α(N+..)=8.70×10^{-5} *13* α(N)=7.84×10^{-5} *11*; α(O)=8.55×10^{-6} *12*

$^{121}_{52}Te_{69}$-7

Adopted Levels, Gammas (continued)

γ(^{121}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	δ[a]	α[b]	Comments
594.489	5/2+	594.50[#] 5	73[#] 4	0.0	1/2+	(E2)		0.00508 8	α(K)=0.00435 6; α(L)=0.000588 9; α(M)=0.0001177 17; α(N+..)=2.55×10^{-5} 4 α(N)=2.31×10^{-5} 4; α(O)=2.42×10^{-6} 4
681.28	1/2+	469.18[c] 7	100[c] 6	212.191	3/2+				
		681.1[c] 1	27[c] 3	0.0	1/2+				
683.05	(7/2)+	207.81 7	17.6 2	475.243	5/2+	D(+Q)		0.111 21	
		239.9[#] 1	2.9[#] 7	443.11	7/2+				
		470.83 4	100 6	212.191	3/2+	Q			
		683.10 7	8.6 6	0.0	1/2+				
757.95	(7/2−)	219.3 1	100 10	538.69	7/2−				
		319.6 1	[@]	438.52	(9/2)−				
		546.2[d] 2	39 7	212.191	3/2+				
806.69	3/2+	594.5[#] 1	9.2[#] 23	212.191	3/2+				
		806.63 5	100 4	0.0	1/2+				
810.92	(5/2+,7/2+)	127.9[#] 1	0.17[#] 6	683.05	(7/2)+				
		278.87 6	8.7 5	532.052	3/2+	(M1)		0.0413	α(K)=0.0357 5; α(L)=0.00451 7; α(M)=0.000900 13; α(N+..)=0.000197 3 α(N)=0.0001781 25; α(O)=1.94×10^{-5} 3
		335.7 2	0.74 23	475.243	5/2+				
		367.80 5	6.2 3	443.11	7/2+				
		598.74 5	100 4	212.191	3/2+				
		810.91 6	8.6 4	0.0	1/2+				
830.53	(9/2)+	387.4 1	100	443.11	7/2+	M1+E2	−4.6 6	0.01728	α(K)=0.01459 21; α(L)=0.00216 3; α(M)=0.000435 7; α(N+..)=9.33×10^{-5} 14 α(N)=8.47×10^{-5} 12; α(O)=8.62×10^{-6} 12
887.65	(7/2+)	293.27 6	100 5	594.489	5/2+				
		412.0[#] 1	8.1[#] 14	475.243	5/2+				
912.22	5/2+	154.2 1	3.9 8	757.95	(7/2−)				
		317.82 6	36 2	594.489	5/2+				
		380.2 1	8.5 8	532.052	3/2+				
		437.0 1	8.9 8	475.243	5/2+				
		469.18[c] 7	27[c] 2	443.11	7/2+				
		699.96 5	100 8	212.191	3/2+				
925.62	(15/2)−	631.6 1	100	293.974	11/2−	E2		0.00433 6	α(K)=0.00372 6; α(L)=0.000497 7; α(M)=9.94×10^{-5} 14; α(N+..)=2.16×10^{-5} 3 α(N)=1.95×10^{-5} 3; α(O)=2.06×10^{-6} 3
975.27	(13/2)−	536.6 4	29 1	438.52	(9/2)−	(E2)		0.00670 10	α(K)=0.00572 8; α(L)=0.000789 12; α(M)=0.0001581 23; α(N+..)=3.42×10^{-5} 5 α(N)=3.10×10^{-5} 5; α(O)=3.23×10^{-6} 5

Adopted Levels, Gammas (continued)

γ(^{121}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	α[b]	Comments
975.27	(13/2)$^-$	681.3[c] *1*	100[c] *3*	293.974	11/2$^-$	M1+E2	0.0040 *5*	α(K)=0.0035 *4*; α(L)=0.00044 *4*; α(M)=8.8×10^{-5} *7*; α(N+..)=1.92×10^{-5} *16* α(N)=1.73×10^{-5} *15*; α(O)=1.86×10^{-6} *19* δ: −0.35 *8* or −2.0 *4*.
994.02	3/2$^+$,5/2$^+$	518.9 *1*	12 *3*	475.243	5/2$^+$			
		550.8 *1*	18 *3*	443.11	7/2$^+$			
		781.85 *6*	96 *5*	212.191	3/2$^+$			
		994.03 *6*	100 *5*	0.0	1/2$^+$	M1,E2	0.00166 *20*	α(K)=0.00144 *18*; α(L)=0.000177 *19*; α(M)=3.5×10^{-5} *4*; α(N+..)=7.7×10^{-6} *9* α(N)=7.0×10^{-6} *8*; α(O)=7.6×10^{-7} *9*
1018.44	(9/2$^+$)	543.2 *2*	100	475.243	5/2$^+$	(Q)		
1080.29	(11/2$^+$)	249.8 *2*	4.7 *12*	830.53	(9/2)$^+$			
		637.2 *1*	100 *5*	443.11	7/2$^+$	(E2)	0.00424 *6*	α(K)=0.00363 *5*; α(L)=0.000485 *7*; α(M)=9.70×10^{-5} *14*; α(N+..)=2.10×10^{-5} *3* α(N)=1.90×10^{-5} *3*; α(O)=2.01×10^{-6} *3*
1148.65	5/2$^+$	554.2 *1*	10.9 *13*	594.489	5/2$^+$			
		673.34 *6*	34.7 *19*	475.243	5/2$^+$			
		705.5[#] *1*	12.2[#] *16*	443.11	7/2$^+$			
		936.44 *5*	100 *3*	212.191	3/2$^+$	M1	0.00212 *3*	α(K)=0.00185 *3*; α(L)=0.000224 *4*; α(M)=4.46×10^{-5} *7*; α(N+..)=9.80×10^{-6} *14* α(N)=8.83×10^{-6} *13*; α(O)=9.68×10^{-7} *14*
		1148.9 *1*	20.6 *13*	0.0	1/2$^+$			
1170.19	3/2$^+$,5/2$^+$	487.1 *1*	29 *4*	683.05	(7/2)$^+$			
		957.96 *7*	100 *6*	212.191	3/2$^+$			
		1170.3 *1*	100 *8*	0.0	1/2$^+$			
1171.06	(9/2$^+$)	283.3 *2*	100	887.65	(7/2$^+$)			
1172.86	(5/2$^-$,7/2$^+$)	489.9 *2*	11 *2*	683.05	(7/2)$^+$			
		634.0 *2*	19 *2*	538.69	7/2$^-$			
		640.8 *1*	100 *4*	532.052	3/2$^+$			
		697.68 *7*	64 *3*	475.243	5/2$^+$			
		734.3 *1*	19 *2*	438.52	(9/2)$^-$			
1177.44	(11/2$^-$)	202.1 *2*	8 *2*	975.27	(13/2)$^-$			
		739.0 *2*	100 *10*	438.52	(9/2)$^-$			
		883.9 *4*	55 *6*	293.974	11/2$^-$			
1185.58		502.5 *1*	100 *10*	683.05	(7/2)$^+$			
		1185.7 *2*	47 *10*	0.0	1/2$^+$			
1208.05	(11/2$^+$)	189.6 *2*	6 *2*	1018.44	(9/2$^+$)			
		525.0 *1*	100 *4*	683.05	(7/2)$^+$	(E2)	0.00712 *10*	α(K)=0.00607 *9*; α(L)=0.000841 *12*; α(M)=0.0001686 *24*; α(N+..)=3.64×10^{-5} *6* α(N)=3.30×10^{-5} *5*; α(O)=3.43×10^{-6} *5*

$^{121}_{52}Te_{69}$-9

Adopted Levels, Gammas (continued)

γ(^{121}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	α[b]	Comments
1226.88	5/2+	420.2 *3*	4 *2*	806.69	3/2+			
		543.5 *1*	5 *1*	683.05	(7/2)+			
		632.2 *1*	8 *1*	594.489	5/2+			
		688.1 *1*	13 *10*	538.69	7/2−			
		694.89 *5*	79 *4*	532.052	3/2+			
		751.65 *7*	18 *1*	475.243	5/2+			
		783.8 *2*	5 *1*	443.11	7/2+			
		1014.75 *5*	100 *4*	212.191	3/2+			
		1226.9 *1*	13 *1*	0.0	1/2+			
1306.34	3/2	548.62 *9*	30 *3*	757.95	(7/2−)			
		711.69 *7*	41 *3*	594.489	5/2+	(E1)	0.001210 *17*	α(K)=0.001053 *15*; α(L)=0.0001266 *18*; α(M)=2.51×10^{-5} *4*; α(N+..)=5.49×10^{-6} α(N)=4.96×10^{-6} *7*; α(O)=5.38×10^{-7} *8*
		831.2 *1*	32 *3*	475.243	5/2+			
		1094.20 *6*	100 *5*	212.191	3/2+			
		1306.25 *6*	94 *5*	0.0	1/2+			
1324.65	(3/2+,5/2+)	849.7 *2*	82 *18*	475.243	5/2+			
		1112.4 *2*	100 *18*	212.191	3/2+			
		1324.4 *2*	82 *9*	0.0	1/2+			
1340.63	5/2+	802.1 *1*	30 *4*	538.69	7/2−			
		808.3 *2*	33 *5*	532.052	3/2+			
		865.35 *7*	66 *4*	475.243	5/2+			
		1128.42 *7*	100 *5*	212.191	3/2+			
1363.96	3/2+,5/2+	681.1[c] *1*	25[c] *3*	683.05	(7/2)+			
		888.91 *7*	83 *5*	475.243	5/2+			
		1151.57 *7*	100 *5*	212.191	3/2+			
		1363.81 *8*	78 *4*	0.0	1/2+			
1419.47	(13/2+)	339.2 *1*	22 *2*	1080.29	(11/2+)	D(+Q)		
		588.8 *2*	100 *3*	830.53	(9/2)+	(E2)	0.00521 *8*	α(K)=0.00446 *7*; α(L)=0.000604 *9*; α(M)=0.0001209 *17*; α(N+..)=2.62×10^{-5} *4* α(N)=2.37×10^{-5} *4*; α(O)=2.49×10^{-6} *4*
1437.18		443.3 *1*	100 *9*	994.02	3/2+,5/2+			
		626.3 *1*	81 *13*	810.92	(5/2+,7/2+)			
		754.2 *2*	34 *6*	683.05	(7/2)+			
		842.5 *1*	75 *9*	594.489	5/2+			
1473.2	(11/2+)	300.9 *4*	60	1171.06	(9/2+)			
		584.4 *4*	100	887.65	(7/2+)			
1486.62	(7/2)+	892.4 *2*	14.8 *23*	594.489	5/2+			
		954.5 *2*	11.3 *23*	532.052	3/2+			
		1011.23 *6*	100 *6*	475.243	5/2+			
		1043.65 *7*	77 *4*	443.11	7/2+			

$^{121}_{52}Te_{69}$-10

Adopted Levels, Gammas (continued)

γ(^{121}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	δ[a]	α[b]	Comments
1486.62	(7/2)$^+$	1274.47 *9*	42 *3*	212.191	3/2$^+$				
		1486.6 *1*	45 *2*	0.0	1/2$^+$				
1540.19		628.2 *2*	100 *14*	912.22	5/2$^+$				
		857.0 *3*	36 *14*	683.05	(7/2)$^+$				
		1540.0 *2*	64 *21*	0.0	1/2$^+$				
1599.63	(17/2$^-$)	624.3 *3*	62 *4*	975.27	(13/2)$^-$	(E2)		0.00447 *7*	α(K)=0.00383 *6*; α(L)=0.000513 *8*; α(M)=0.0001026 *15*; α(N+..)=2.23×10^{-5} *4* α(N)=2.01×10^{-5} *3*; α(O)=2.12×10^{-6} *3*
		674.0[c] *1*	100[c] *3*	925.62	(15/2)$^-$	(M1+E2)	−1.0 *4*	0.00412 *22*	α(K)=0.00356 *20*; α(L)=0.000452 *18*; α(M)=9.0×10^{-5} *4*; α(N+..)=1.97×10^{-5} *8* α(N)=1.78×10^{-5} *8*; α(O)=1.91×10^{-6} *9*
1607.4	(13/2$^+$)	589.0 *4*	100	1018.44	(9/2$^+$)	Q			
1626.37		1094.2 *1*	85 *25*	532.052	3/2$^+$				
		1151.6 *1*	100 *25*	475.243	5/2$^+$				
		1413.8 *1*	78 *8*	212.191	3/2$^+$				
1654.32	(19/2)$^-$	728.7 *1*	100	925.62	(15/2)$^-$	E2		0.00302 *5*	α(K)=0.00260 *4*; α(L)=0.000339 *5*; α(M)=6.77×10^{-5} *10*; α(N+..)=1.474×10^{-5} *21* α(N)=1.332×10^{-5} *19*; α(O)=1.415×10^{-6} *20*
1681.03	3/2,5/2$^+$	768.80 *9*	100 *8*	912.22	5/2$^+$				
		870.1 *1*	49 *5*	810.92	(5/2$^+$,7/2$^+$)				
		874.1 *1*	77 *8*	806.69	3/2$^+$				
		1086.52 *9*	85 *5*	594.489	5/2$^+$				
		1469.1 *1*	46 *5*	212.191	3/2$^+$				
		1681.0 *1*	82 *5*	0.0	1/2$^+$				
1711.88	(15/2$^+$)	292.3 *3*	16 *3*	1419.47	(13/2$^+$)				
		631.6 *1*	100 *5*	1080.29	(11/2$^+$)				
1730.71	3/2,5/2$^+$	1136.0 *1*	30 *2*	594.489	5/2$^+$				
		1198.78 *7*	100 *6*	532.052	3/2$^+$				
		1255.4 *1*	41 *4*	475.243	5/2$^+$				
		1518.5 *1*	26 *2*	212.191	3/2$^+$				
1789.3	(13/2$^+$)	316.0 *4*	16 *2*	1473.2	(11/2$^+$)				
		617.0 *4*	100 *10*	1171.06	(9/2$^+$)				
1806.77	(15/2$^+$)	199.4 *4*	1.5 *2*	1607.4	(13/2$^+$)				
		598.7 *2*	100 *10*	1208.05	(11/2$^+$)	(Q)			
1823.3	(17/2$^-$)	848.4 *4*	78 *7*	975.27	(13/2)$^-$	(Q)			
		897.3 *4*	100 *10*	925.62	(15/2)$^-$	D(+Q)			
1851.44		674.0[c] *1*	100[c]	1177.44	(11/2$^-$)				
1913.23		686.2 *2*	79 *14*	1226.88	5/2$^+$				
		764.7 *2*	100 *14*	1148.65	5/2$^+$				
		1438.0 *2*	100 *14*	475.243	5/2$^+$				
1994.0	(15/2$^-$)	817.0 *4*	100 *10*	1177.44	(11/2$^-$)				

$^{121}_{52}Te_{69}$-11

Adopted Levels, Gammas (continued)

γ(^{121}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	δ[a]	α[b]	Comments
1994.0	(15/2$^-$)	1068.0 *4*	71 *7*	925.62	(15/2)$^-$	D(+Q)			
2016.05	(21/2)$^-$	361.7 *1*	100 *1*	1654.32	(19/2)$^-$	M1+E2	−0.15 *4*	0.0211	α(K)=0.0183 *3*; α(L)=0.00230 *4*; α(M)=0.000459 *7*; α(N+..)=0.0001006 *15* α(N)=9.07×10^{-5} *13*; α(O)=9.87×10^{-6} *14*
		416.4 *1*	20 *1*	1599.63	(17/2$^-$)	(E2)		0.01388	α(K)=0.01174 *17*; α(L)=0.001717 *24*; α(M)=0.000346 *5*; α(N+..)=7.42×10^{-5} *11* α(N)=6.74×10^{-5} *10*; α(O)=6.88×10^{-6} *10*
2070.36	(17/2$^+$)	358.7[d] *2*	19 *5*	1711.88	(15/2$^+$)				
		650.9 *2*	100 *7*	1419.47	(13/2$^+$)	Q			
2119.1	(15/2$^+$)	330.4 *4*	39	1789.3	(13/2$^+$)				
		645.3 *4*	100	1473.2	(11/2$^+$)				
2281.55	(23/2$^+$)	265.5 *1*	100	2016.05	(21/2)$^-$	(E1+M2)	−0.03 *7*	0.0133 *19*	α(K)=0.0115 *16*; α(L)=0.00143 *25*; α(M)=0.00028 *5*; α(N+..)=6.2×10^{-5} *11* α(N)=5.6×10^{-5} *10*; α(O)=5.9×10^{-6} *11*
2332.21	(23/2)$^-$	316.1 *1*	100 *3*	2016.05	(21/2)$^-$	M1+E2	−0.06 *4*	0.0298	α(K)=0.0258 *4*; α(L)=0.00325 *5*; α(M)=0.000648 *10*; α(N+..)=0.0001423 *21* α(N)=0.0001283 *19*; α(O)=1.397×10^{-5} *20*
		677.8 *3*	43 *4*	1654.32	(19/2)$^-$	Q			
2396.1	(17/2$^+$)	788.7 *4*	100	1607.4	(13/2$^+$)	Q			
2422.2	(21/2$^-$)	598.9 *4*	100	1823.3	(17/2$^-$)				
2469.8	(19/2$^+$)	399.5 *4*	7.8 *14*	2070.36	(17/2$^+$)				
		757.9 *4*	100 *10*	1711.88	(15/2$^+$)	Q			
2582.6	(19/2$^+$)	775.8 *4*	100	1806.77	(15/2$^+$)	Q			
2679.5	(19/2$^-$)	856.2 *4*	97 *9*	1823.3	(17/2$^-$)				
		1025.0 *4*	61 *6*	1654.32	(19/2)$^-$				
		1079.9 *4*	100 *10*	1599.63	(17/2$^-$)	D(+Q)			
2716.96	(23/2$^-$)	384.4 *3*	24 *3*	2332.21	(23/2)$^-$	D(+Q)			
		700.9 *4*	42 *4*	2016.05	(21/2)$^-$	D(+Q)			
		1063.1 *4*	100 *10*	1654.32	(19/2)$^-$	Q			
2854.1	(19/2$^-$)	860.3 *4*	100 *11*	1994.0	(15/2$^-$)				
		1200.1 *4*	81 *8*	1654.32	(19/2)$^-$				
2915.0	(21/2$^+$)	844.6 *4*	100	2070.36	(17/2$^+$)	Q			
2937.0	(21/2$^-$)	257.7 *4*	100	2679.5	(19/2$^-$)	D(+Q)			
2952.73	(23/2,25/2)	621.3 *4*	24 *2*	2332.21	(23/2)$^-$				
		936.8 *3*	100 *10*	2016.05	(21/2)$^-$	D,Q			Mult.: D(E1) assignment in ^{114}Cd(^{11}B,p3nγ) (1996Si24), while Q(E2) assignment in ^{116}Cd(^{9}Be,4nγ) (1996Pa11).
2996.5	(21/2)	1342.2 *4*	100	1654.32	(19/2)$^-$	D			
3073.2	(25/2$^-$)	651.0 *4*	100	2422.2	(21/2$^-$)				
3136.45	(25/2$^-$)	419.4 *3*	18 *2*	2716.96	(23/2$^-$)	D(+Q)			I_γ: average of 22.6 *45* (^{114}Cd(^{11}B,p3nγ)) and 15.2 *15* (^{116}Cd(^{9}Be,4nγ)).

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Adopted Levels, Gammas (continued)

γ(^{121}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	Comments
3136.45	(25/2$^-$)	804.1 *3*	26 *3*	2332.21	(23/2)$^-$	D(+Q)	I_γ: average of 32.8 *37* (^{114}Cd(^{11}B,p3nγ)) and 19.4 *20* (^{116}Cd(^{9}Be,4nγ)).
		1120.3 *3*	100 *3*	2016.05	(21/2)$^-$	Q	
3228.9	(21/2$^+$)	832.8 *4*	100	2396.1	(17/2$^+$)		
3255.0	(23/2$^-$)	318.1 *4*	100 *10*	2937.0	(21/2$^-$)		
		575.4 *4*	12 *2*	2679.5	(19/2$^-$)		
3320.8	(23/2$^+$)	851.0 *4*	100	2469.8	(19/2$^+$)	Q	
3321.0	(23/2)	1304.9 *4*	100	2016.05	(21/2)$^-$	D	
3389.0	(23/2$^+$)	806.4 *4*	100	2582.6	(19/2$^+$)	Q	
3401.8	(27/2$^-$)	265.4 *3*	72 *7*	3136.45	(25/2$^-$)	D(+Q)	
		1069.4 *3*	100 *10*	2332.21	(23/2)$^-$	Q	
3423.8	(23/2$^-$)	570.1 *4*	57 *6*	2854.1	(19/2$^-$)		
		1091.1 *4*	100 *10*	2332.21	(23/2)$^-$	D(+Q)	
3443.1		446.6 *4*	100	2996.5	(21/2)		
3594.8		273.8 *4*	100	3321.0	(23/2)		
3642.6	(25/2$^-$)	387.5 *4*	100 *10*	3255.0	(23/2$^-$)		
		705.7 *4*	39 *4*	2937.0	(21/2$^-$)		
3655.4	(27/2$^-$)	1323.2 *4*	100	2332.21	(23/2)$^-$	Q	
3671.2	(27/2,29/2)	533.3 *4*	14 *2*	3136.45	(25/2$^-$)		
		719.0 *3*	100 *10*	2952.73	(23/2,25/2)	Q	
3779.2	(25/2$^+$)	864.2 *4*	100	2915.0	(21/2$^+$)	Q	
3834.0		881.3 *4*	100	2952.73	(23/2,25/2)		
3935.3	(29/2)	532.7 *3*	100	3401.8	(27/2$^-$)	D	
3936.9		265.7 *4*	100 *10*	3671.2	(27/2,29/2)		
4083.1	(27/2$^-$)	440.4 *4*	100 *10*	3642.6	(25/2$^-$)		
		828.2 *4*	30 *3*	3255.0	(23/2$^-$)		
4146.8	(27/2$^+$)	826.0 *4*	100	3320.8	(23/2$^+$)		
4188.0	(27/2$^-$)	764.2 *4*	100	3423.8	(23/2$^-$)		
4238.2	(29/2$^-$)	1102.2 *3*	100	3136.45	(25/2$^-$)	Q	
4372.4	(31/2$^-$)	971.0 *3*	100	3401.8	(27/2$^-$)	Q	
4411.3	(31/2)	740.1 *3*	100	3671.2	(27/2,29/2)	D,Q	Mult.: Q assignment in ^{114}Cd(^{11}B,p3nγ), while D(+Q) assignment in ^{116}Cd(^{9}Be,4nγ).
4442.7		1040.9 *4*	100	3401.8	(27/2$^-$)		
4520.2		848.9 *3*	100 *16*	3671.2	(27/2,29/2)		
		1120 *1*	30 *6*	3401.8	(27/2$^-$)		
4785.2	(33/2$^-$)	264.9 *3*	25 *6*	4520.2			
		373.7 *3*	38 *4*	4411.3	(31/2)	(D)	I_γ: average of 48 *7* (^{114}Cd(^{11}B,p3nγ)) and 38 *6* (^{116}Cd(^{9}Be,4nγ)). Mult=E1 assumed in ^{114}Cd(^{11}B,p3nγ).
		547.4 *3*	100 *10*	4238.2	(29/2$^-$)	Q	
		849.5 *2*	51 *5*	3935.3	(29/2)		
4898.4	(33/2)	487.2 *3*	100	4411.3	(31/2)	D	
5012.7		601.4 *4*	100	4411.3	(31/2)		

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Adopted Levels, Gammas (continued)

γ(^{121}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[&]	Comments
5020.7	(35/2)	122.4 *4*	6 *6*	4898.4	(33/2)		
		609.3 *3*	100 *14*	4411.3	(31/2)	Q	
5179.3	(35/2$^-$)	393.6 *3*	100 *5*	4785.2	(33/2$^-$)	D	
		807.2 *3*	37 *10*	4372.4	(31/2$^-$)	Q	I_γ: average of 53 *6* (^{114}Cd(^{11}B,p3nγ)) and 22 *2* (^{116}Cd(^{9}Be,4nγ)).
5281.2		838.5 *4*	100	4442.7			
5308.6		936.2 *3*	100	4372.4	(31/2$^-$)		
5503.5		1131.1 *4*	100	4372.4	(31/2$^-$)		
5533.4	(39/2$^-$)	224.9 *3*	12 *2*	5308.6			I_γ: average of 12.8 *23* (^{114}Cd(^{11}B,p3nγ)) and 11.3 *19* (^{116}Cd(^{9}Be,4nγ)).
		354.1 *3*	100 *10*	5179.3	(35/2$^-$)	Q	
5689.1	(37/2)	509.8 *3*	100 *10*	5179.3	(35/2$^-$)	D	
		668.5 *3*	32 *6*	5020.7	(35/2)		
5906.5	(39/2)	217.4 *3*	100	5689.1	(37/2)	D	
6545.2	(41/2)	638.7 *3*	100	5906.5	(39/2)	D	
6774.1	(43/2$^-$)	1240.7 *3*	100	5533.4	(39/2$^-$)	(Q)	
7059.8	(43/2$^-$)	514.5 *3*	100	6545.2	(41/2)	D	
7061.8	(47/2)	287.7 *3*	100	6774.1	(43/2$^-$)	Q	
7106.9		561.8 *3*	100	6545.2	(41/2)		
7671.2		564.3 *3*	100 *20*	7106.9			
		611.0 *7*	71 *14*	7059.8	(43/2$^-$)		
7683.6		576.6 *3*	100	7106.9			
8292.5	(51/2$^-$)	1230.7 *3*	100	7061.8	(47/2)	Q	
8583.2		912.0 *3*	100	7671.2		D	

[†] From ^{121}I ε+$β^+$ decay; others from ^{119}Sn(α,2nγ),^{121}Sb((d,2nγ), ^{114}Cd(^{11}B,p3nγ), ^{116}Cd(^{9}Be,4nγ).
[‡] From ^{121}I ε+$β^+$ decay, ^{119}Sn(α,2nγ); upper limits are given for multiply placed transitions.
[#] Doublet in ^{121}I ε+$β^+$ decay; deduced from coincidence.
[@] No value given in ^{121}I ε decay; doublet in both ^{121}I ε+$β^+$ decay and ^{119}Sn(α,2nγ).
[&] From α in ^{121}I ε+$β^+$ decay; α, γ(θ), linear polarization in ^{119}Sn(α,2nγ),^{121}Sb((d,2nγ); DCO ratio in ^{114}Cd(^{11}B,p3nγ) and in ^{116}Cd(^{9}Be,4nγ).
[a] From α in ^{121}I ε+$β^+$ decay; α, γ(θ), linear polarization in ^{119}Sn(α,2nγ),^{121}Sb((d,2nγ).
[b] 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.
[c] Multiply placed with undivided intensity.
[d] Placement of transition in the level scheme is uncertain.

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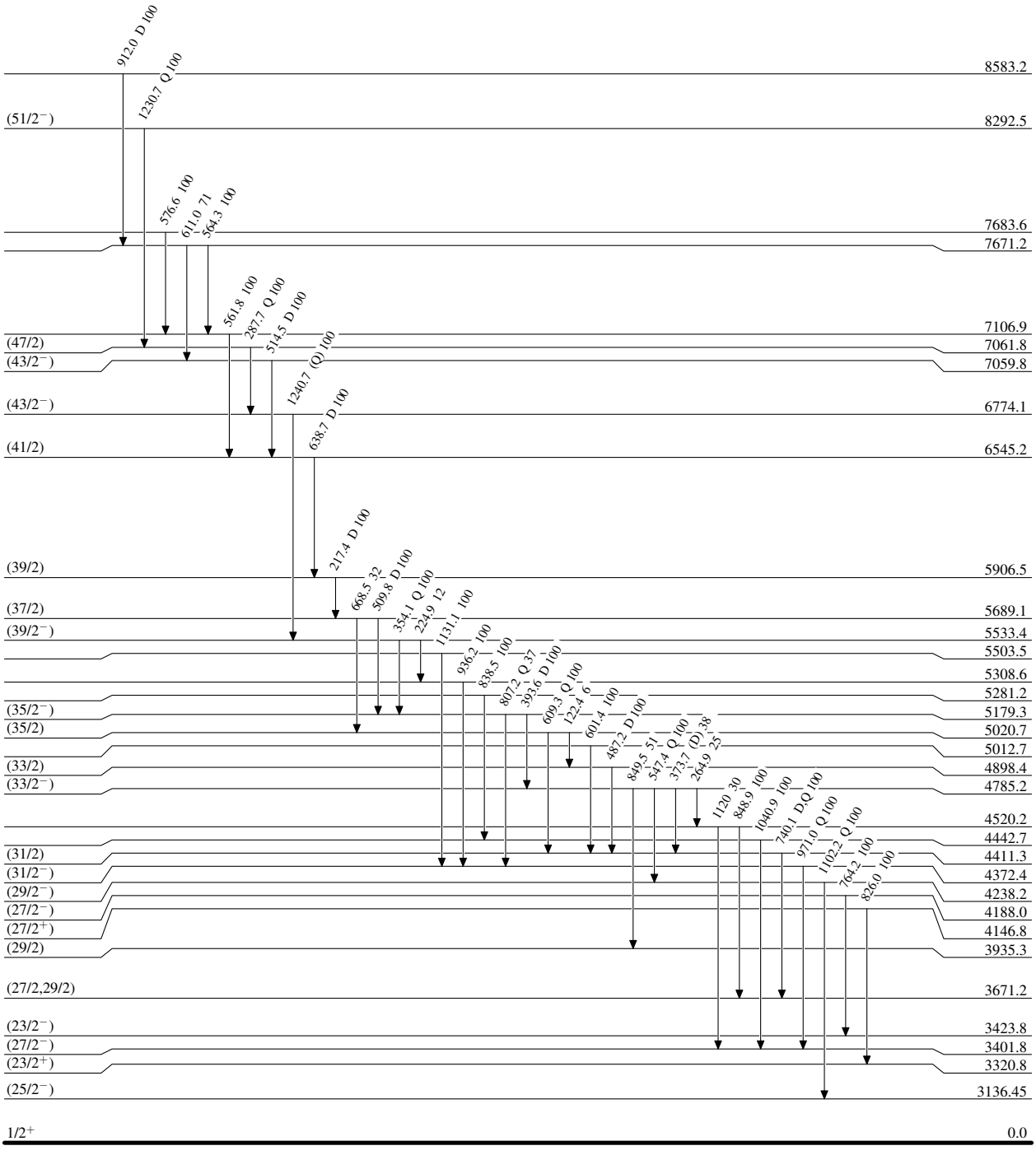
Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

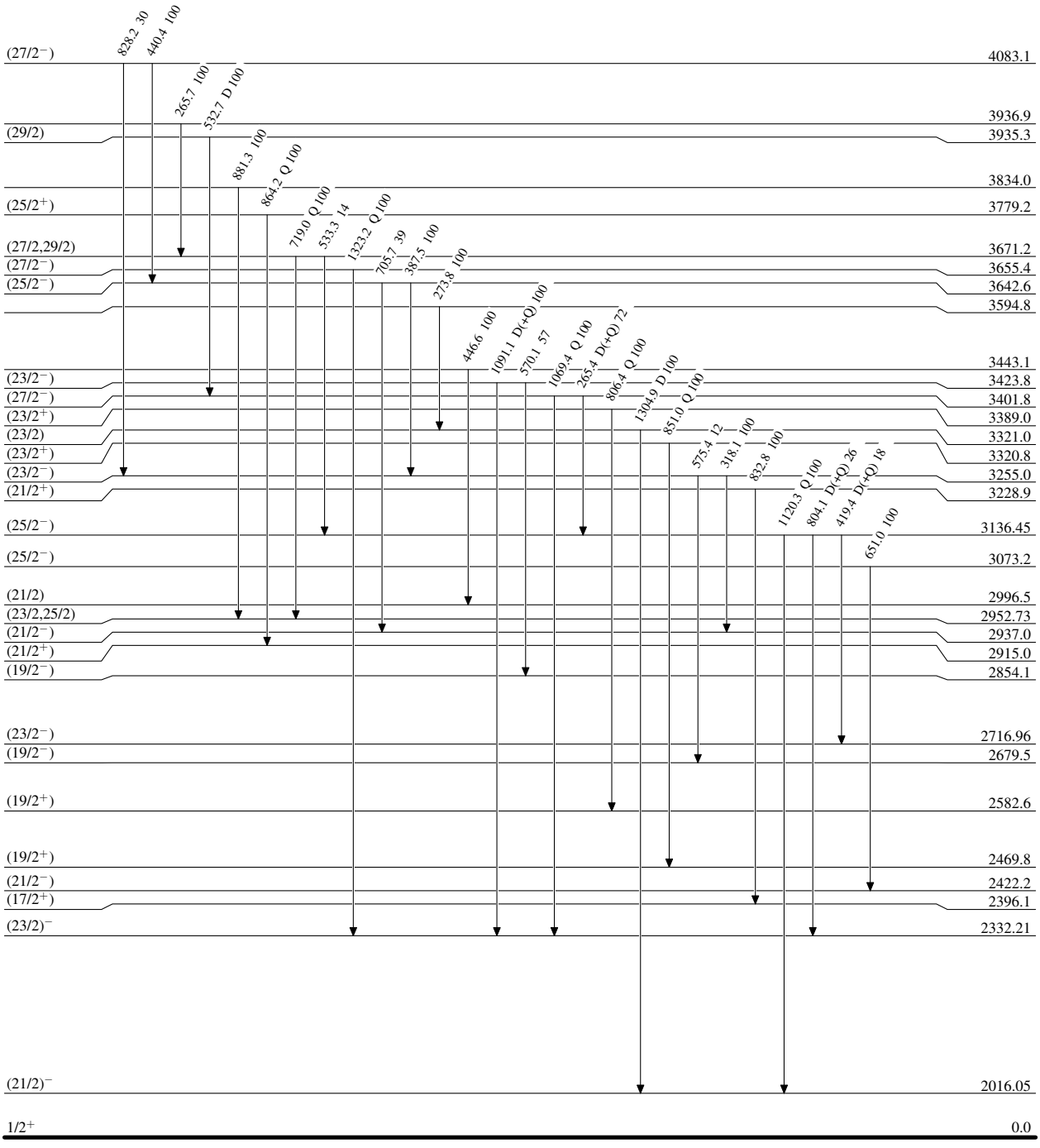


$^{121}_{52}Te_{69}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{121}_{52}Te_{69}$

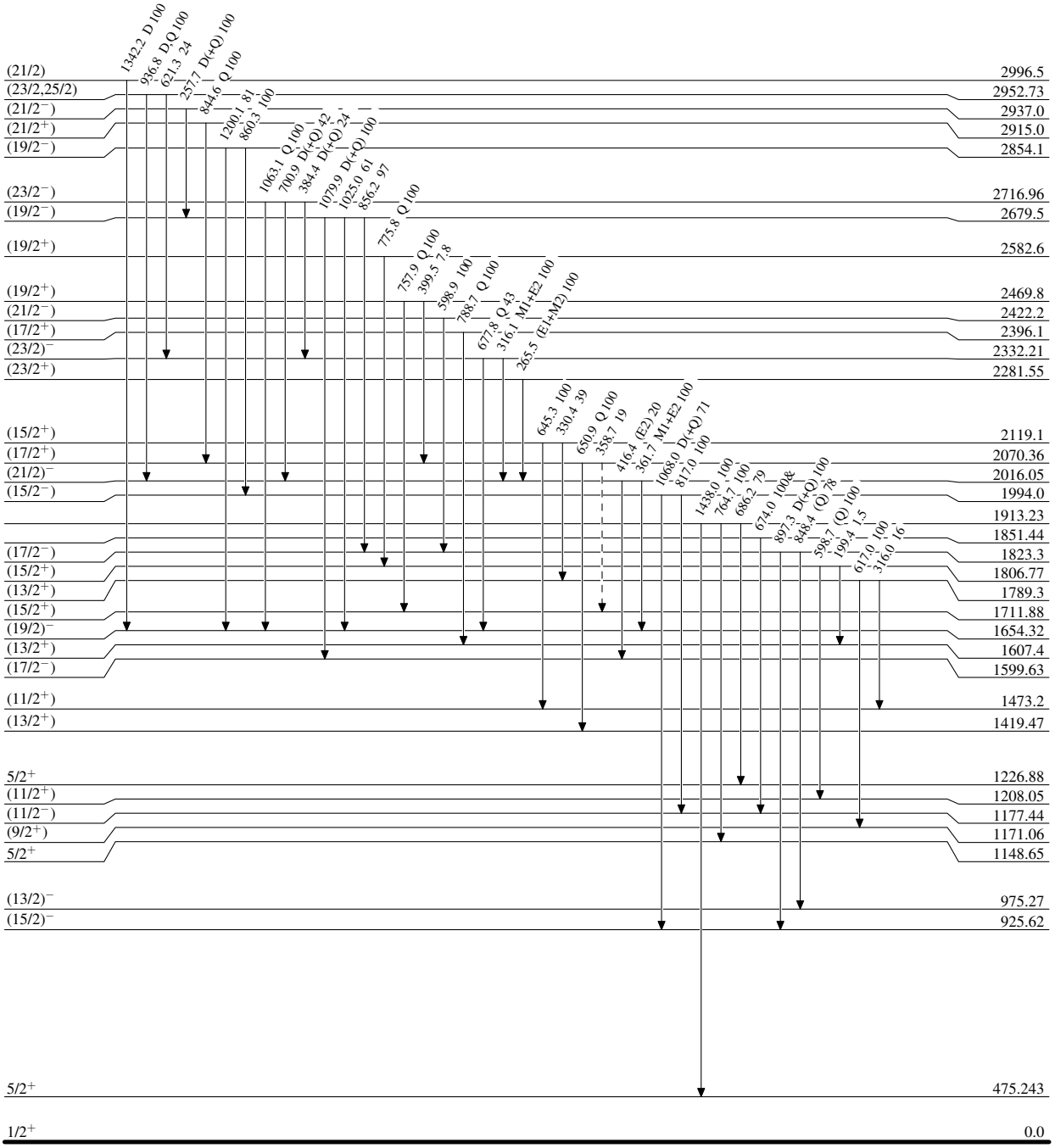
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

– – – – – – ► γ Decay (Uncertain)

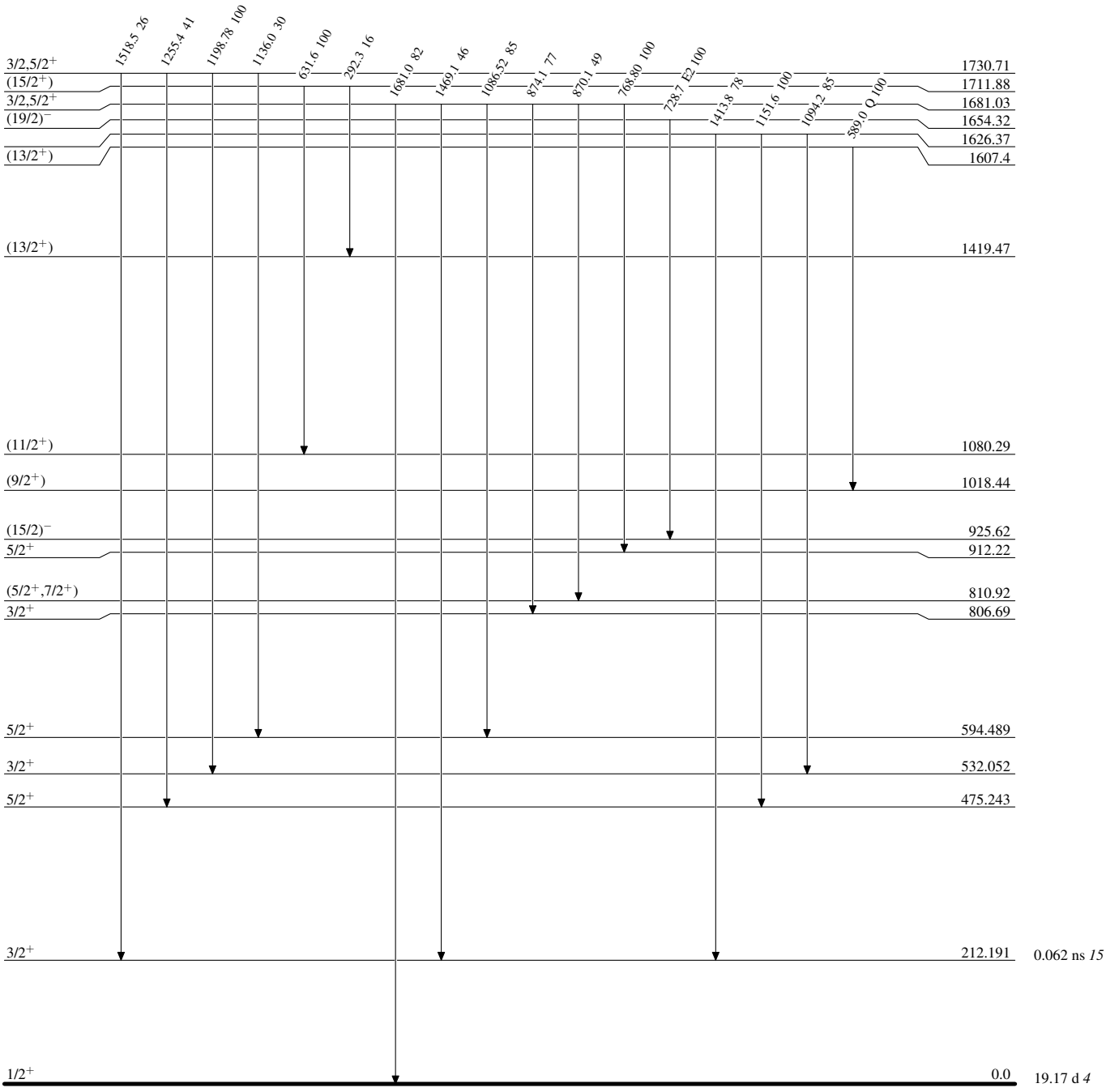


$^{121}_{52}Te_{69}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

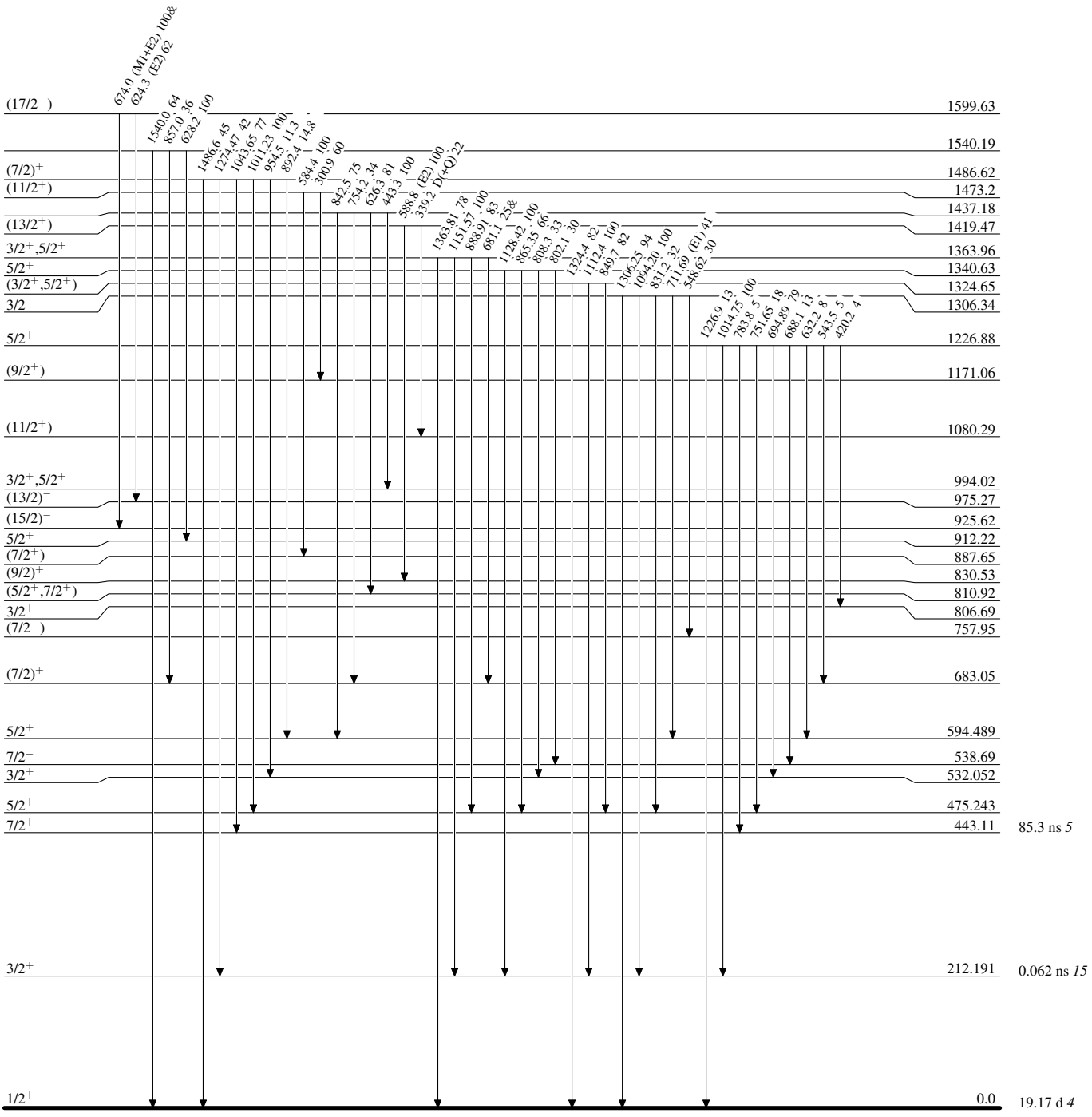


$^{121}_{52}Te_{69}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

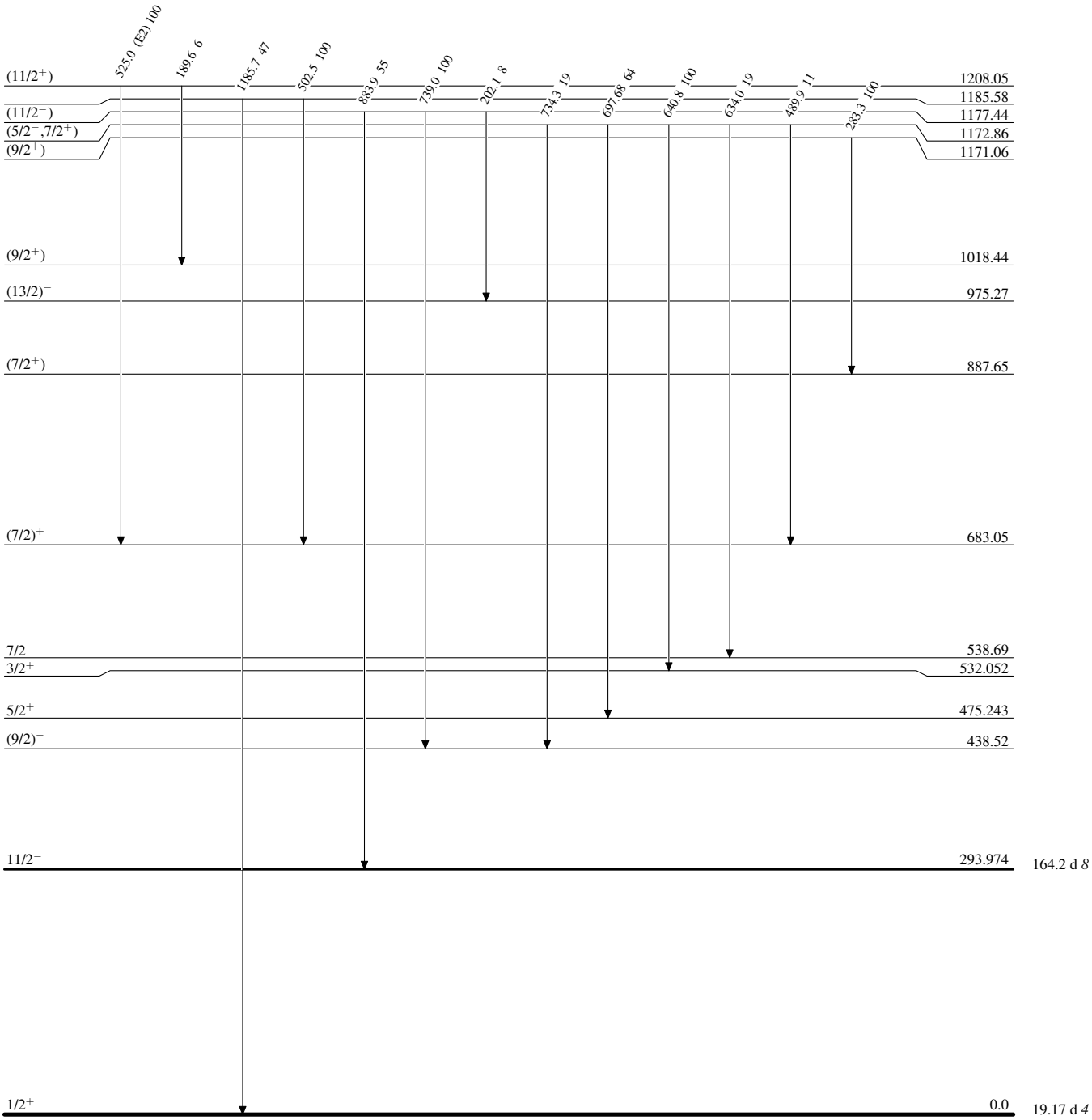


$^{121}_{52}Te_{69}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given



$^{121}_{52}Te_{69}$

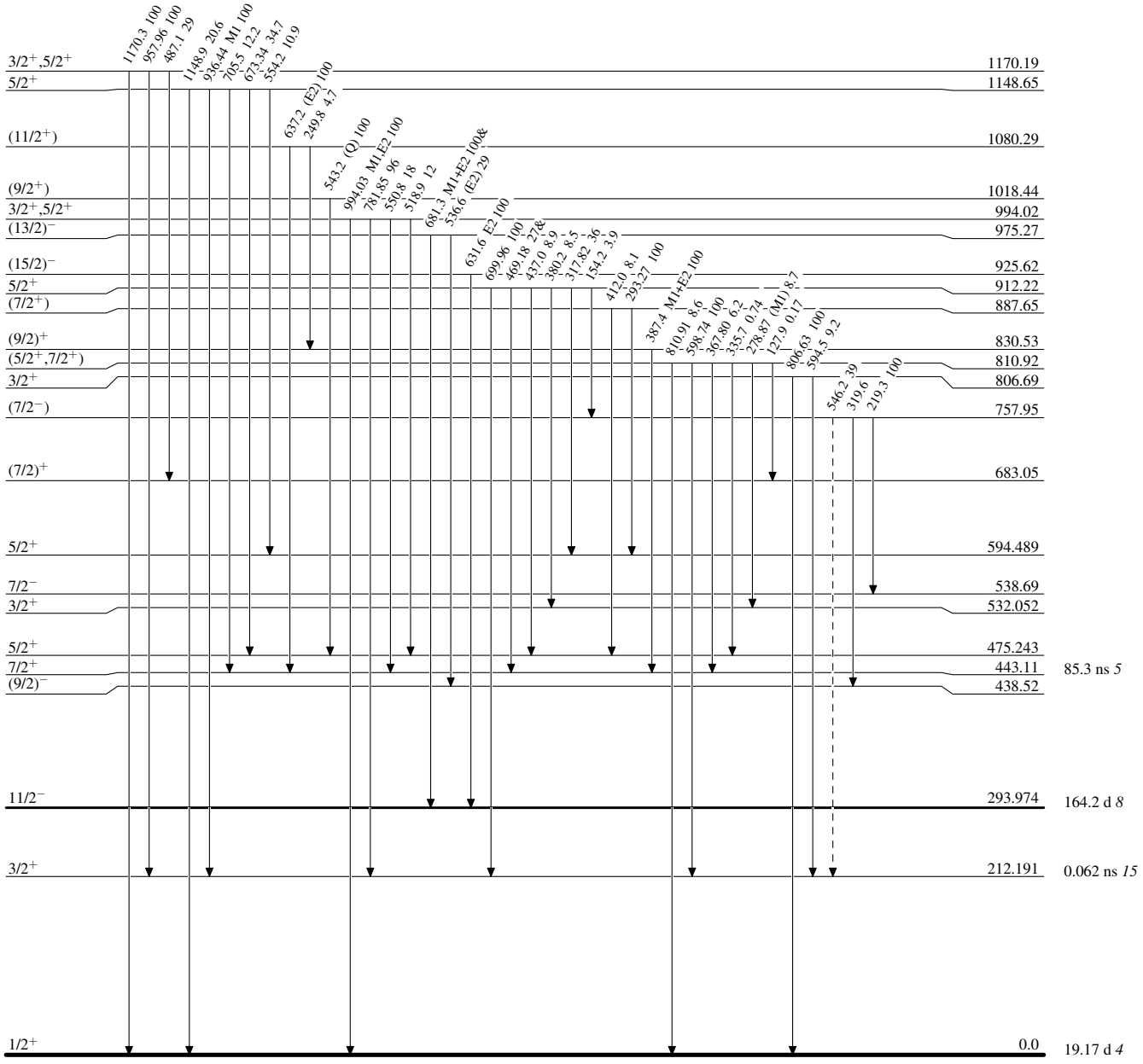
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given

– – – – – – ► γ Decay (Uncertain)

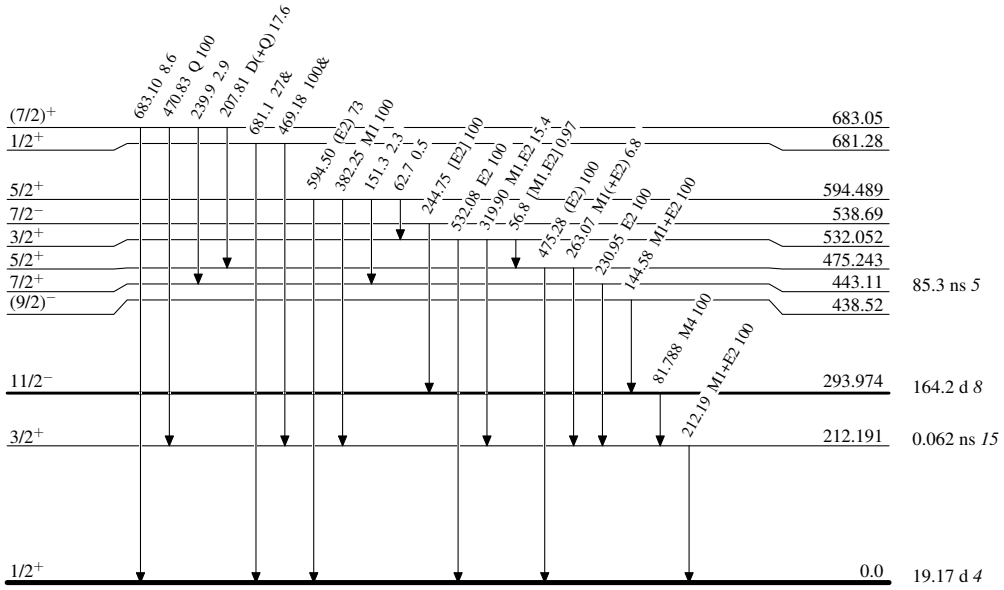


$^{121}_{52}Te_{69}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
& Multiply placed: undivided intensity given



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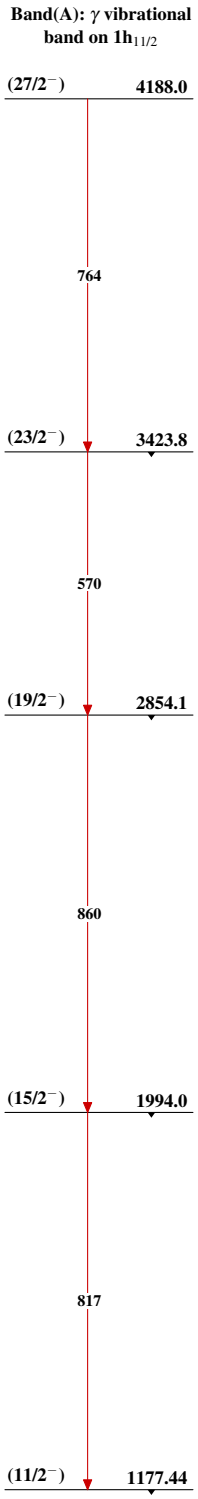
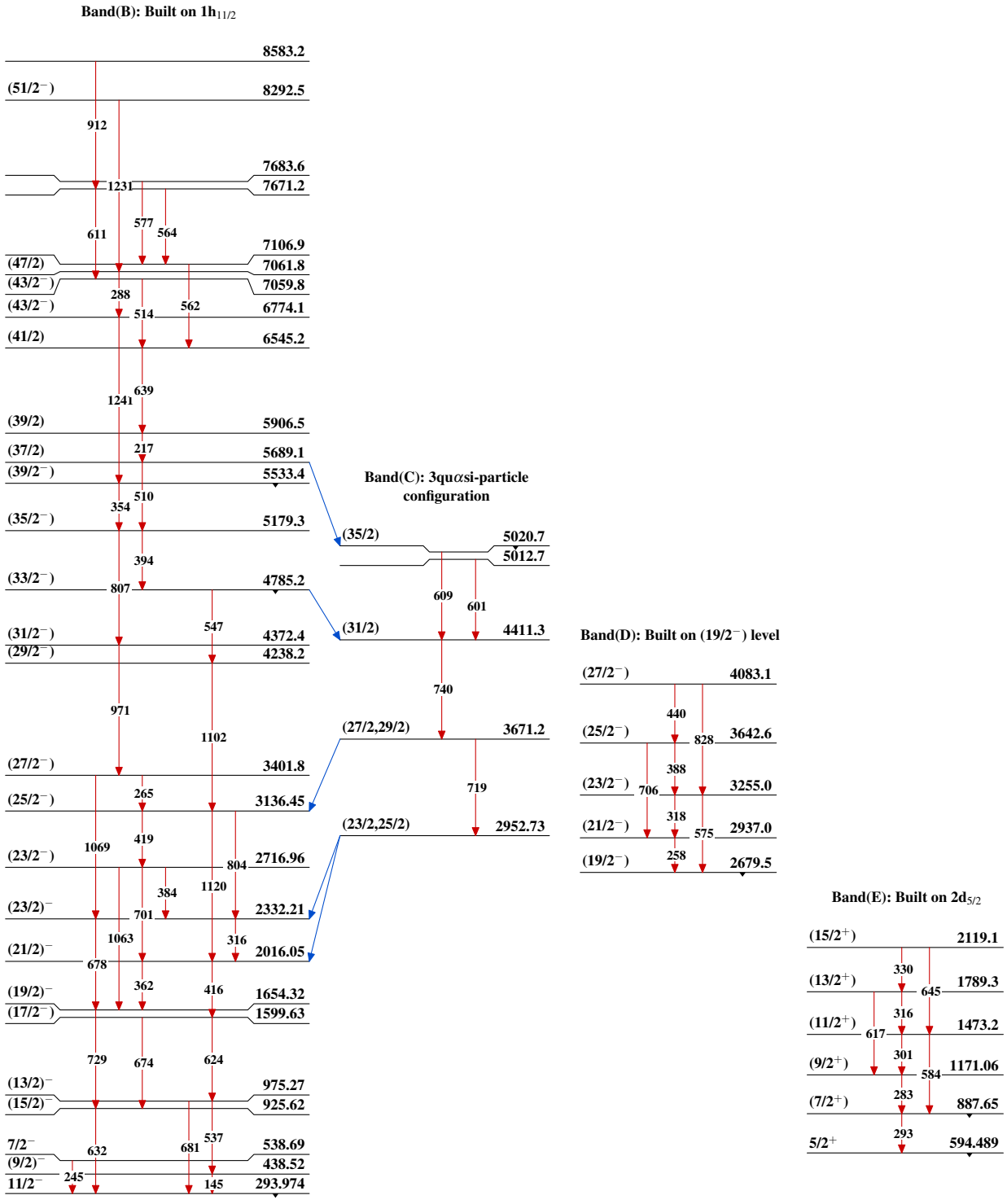
Adopted Levels, Gammas

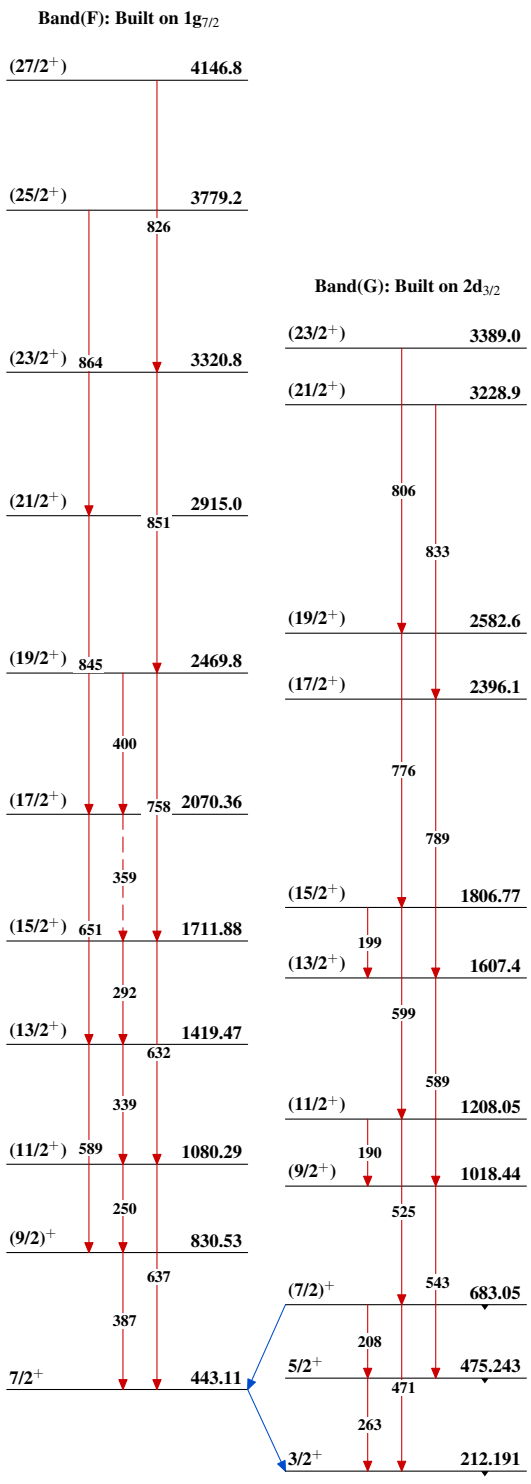


$^{121}_{52}Te_{69}$

Adopted Levels, Gammas (continued)



Adopted Levels, Gammas (continued)



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