Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. Hashizume	NDS 112,1647 (2011)	1-Oct-2009

Q(β^-)=702 *4*; S(n)=6287.65 *18*; S(p)=9.18×10^3 *4*; Q(α)=−2890 *3* 2012Wa38
Note: Current evaluation has used the following Q record 702 3 *6287.8 4* 9170 *30* −2886 3 2003Au03.
Nuclear structure calculations on the levels and their properties: 2007Ji14, 2000Bu15, 1995Ce07, 1985Jo03, 1975DiZG, 1975Se02, 1974Ku09.

^{127}Te Levels

Cross Reference (XREF) Flags

A	^{127}Sb β^- decay (3.85 d)	F	^{128}Te(d,t),(^{3}He,α)
B	^{127}Te IT decay (106.1 d)	G	^{130}Te(^{64}Ni,^{67}Niγ)
C	^{126}Te(pol d,p),(d,p)	H	^{126}Te(n,γ)
D	^{126}Te(t,d)	I	^{127}I(μ^-,νnγ)
E	^{128}Te(p,d)		

E(level)[†‡a]	J$^\pi$[b]	T$_{1/2}$	XREF	Comments
0.0	3/2$^+$	9.35 h *7*	ABCDEFGHI	μ=0.635 *4* J$^\pi$: L=2 in (pol d,p); M4 γ from the 88 level which has L=5 in (pol d,p). T$_{1/2}$: weighted average of 9.48 h *13* (1970Bo22), 9.23 h *13* (1968Qa02), 9.36 h *20* (1963Ma20), 9.35 h *10* (1956Kn20), 9.3 h *5* (1940Se01). μ: radiative detection of NMR (1989Ra17); value relative to μ=+0.605 *4* for the 36 level of ^{125}Te. Configuration=(ν 2d$_{3/2}$).
61.161 *19*	1/2$^+$		A CDEF H	J$^\pi$: L=0 in (pol d,p). Configuration=(ν 3s$_{1/2}$).
88.23 *7*	11/2$^-$	106.1 d *7*	ABCDEF HI	%IT=97.6 *2*; %β^-=2.4 *2* (1970Ap02) μ=−1.041 *6* J$^\pi$: see comments on g.s. T$_{1/2}$: from 2008Ea01. Others: 109 d *2* (1965An05), 105 d *2* (1956Kn20), 115 d (1951Co34), 90 d *2* (1940Se01). μ: radiative detection of NMR (1989Ra17); value relative to μ=+0.605 *4* for the 36 level of ^{125}Te. Configuration=(ν 1h$_{11/2}$).
340.87 *6*	(9/2$^-$)	0.41 ns *2*	A C EFGHI	μ=−0.963 *63* J$^\pi$: L=(5) in (pol d,p),(d,t),(^{3}He,α); D+Q γ from 7/2$^-$. T$_{1/2}$: from ^{127}Sb β^- decay. μ: integral perturbed angular correlations (1989Ra17).
473.26 *4*	5/2$^+$[c]		A C EF HI	J$^\pi$: L=2 in (pol d,p),(d,t),(^{3}He,α); log *ft*=7.8 from 7/2$^+$.
501.928 *10*	3/2$^+$		A CDEF H	J$^\pi$: L=2 in (pol d,p),(d,t); D+Q γ to 1/2$^+$.
622.963 *25*	1/2$^+$		CD H	XREF: D(632). J$^\pi$: L=0 in (pol d,p).
631.40 *6*	7/2$^-$		A C FGHI	J$^\pi$: L=3 in (pol d,p),(d,t),(^{3}He,α); γ to 11/2$^-$.
685.09 *7*	7/2$^+$		A CDEFGHI	J$^\pi$: L=4 in (pol d,p),(d,t),(^{3}He,α); γ to 3/2$^+$.
762.64 *5*	3/2$^+$		A CDEF HI	J$^\pi$: L=2 in (pol d,p).
782.62 *3*	5/2$^+$		A DEF HI	J$^\pi$: L=2 in (d,t),(^{3}He,α); log *ft*=7.40 from 7/2$^+$.
785.63[@] *12*	15/2$^-$		G	J$^\pi$: stretched E2 to 11/2$^-$.
786.13 *6*	7/2$^-$		A C GH	J$^\pi$: L=3 in (pol d,p).
924.02 *18*	7/2$^+$		A CDEF H	J$^\pi$: L=4 in (pol d,p),(d,t),(^{3}He,α); γ to 3/2$^+$.
1075.01 *7*	3/2$^+$		C EF H	J$^\pi$: L=2 in (pol d,p),(d,t): L=(1) is reported in (t,d), however, later experiments do not confirm L=1 transfer.

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Adopted Levels, Gammas (continued)

^{127}Te Levels (continued)

E(level)[†‡a]	Jπ[b]	XREF	Comments
1077.13 *17*	5/2,7/2,9/2	A H	Jπ: log *ft*=7.23 from 7/2+; D+Q γ to 5/2+ and 7/2+.
1140.20 *7*	5/2+	A CDEF H	Jπ: L=2 in (pol d,p); log *ft*=7.57 from 7/2+.
1154.70 *9*	5/2+	A H	Jπ: log *ft*=7.76 from 7/2+; D+Q γ to 3/2+.
1156.8# *15*	(9/2−,11/2−)	CD F	Jπ: L=(5) in (t,d),(d,t).
1176		E	
1183.07 *6*	(5/2−,7/2,9/2)	C H	Jπ: γ to 7/2− and (9/2−).
1206 *5*	3/2+,5/2+	F	Jπ: L=2 in (d,t).
1289.79 *8*	5/2+	A C EF HI	Jπ: L=2 in (pol d,p),(d,t),(^{3}He,α); γ to 3/2+.
1293.21 *10*	(3/2+,5/2,7/2+)	H	Jπ: γ to 3/2+ and 7/2+.
1309.25 *7*	3/2+,5/2+	C F H	Jπ: L=2 in (d,t).
1323.4? *8*		A	
1353.09@ *12*	(11/2+)	G	Jπ: probable Q γ to (7/2)+; systematics of odd Te nuclei.
1353.80 *6*	3/2−	CDEF H	Jπ: L=1 in (pol d,p), L=(1) in (d,t),(^{3}He,α); γ to 7/2−.
1378.58 *7*	5/2+	A CDEF H	XREF: F(1373). Jπ: L=2 in (pol d,p), (d,t), (t,d).
1405.89 *20*	1/2+	C EF H	Jπ: L=0 in (pol d,p),(d,t).
1429.0 *3*	7/2+	C F H	Jπ: L=4 in (pol d,p),(d,t),(^{3}He,α).
1447.4# *15*	(7/2+,9/2+)	C F	Jπ: L=(4) in (d,t),(^{3}He,α).
1462.0 *3*		H	
1464.02@ *15*	19/2−	G	Jπ: stretched E2 to 15/2−.
1491.8 *3*	(7/2+,9/2+)	C F H	Jπ: L=(4) in (d,t).
1544.86@ *15*		G	
1549 *5*		C	
1550.71 *13*	(5/2−,7/2,9/2)	H	Jπ: γ to 7/2− and (9/2−).
1555.7 *6*	5/2+	C F H	Jπ: L=2 in (pol d,p),(d,t),(^{3}He,α).
1568.13 *11*	5/2+	C F H	Jπ: L=2 in (pol d,p),(d,t).
1602.3# *15*	(3/2+,5/2+)	C F	Jπ: L=(2) in (d,t).
1608.20 *8*	(5/2−,7/2,9/2)	H	Jπ: γ to 7/2− and (9/2−).
1612.2 *5*	7/2+,9/2+	C F H	Jπ: L=4 in (pol d,p),(d,t),(^{3}He,α).
1616.29@ *16*	(15/2+)	G	Jπ: probable Q γ to (11/2+); systematics of odd Te nuclei.
1676 *5*		C	
1683.5 *5*	3/2+,5/2+	F H	Jπ: L=2 in (d,t).
1687.54 *11*	3/2−	C H	Jπ: L=1 in (pol d,p); primary γ from 1/2+; γ to 7/2−.
1704.29 *18*	3/2+,5/2+	F H	Jπ: L=2 in (d,t).
1731.8# *15*	(7/2+,9/2+)	C F	Jπ: L=(4) in (d,t).
1758.19 *24*	(3/2+,5/2,7/2−)	C H	Jπ: L=(2),3 in (pol d,p).
1773.09 *8*	3/2+,5/2+	C F H	Jπ: L=2 in (d,t).
1778.97 *8*	(5/2−,7/2+)	C H	Jπ: γ to 3/2+ and (9/2−).
1803.49 *21*	7/2+,9/2+	C F H	Jπ: L=4 in (d,t),(^{3}He,α).
1805.54 *10*		H	Jπ: Primary γ from 1/2+.
1815.3 *4*	(3/2+,5/2,7/2−)	C H	Jπ: L=(2),3 in (pol d,p).
1844.80 *21*	5/2−	C H	Jπ: L=3 in (pol d,p).
1846.74 *11*	(5/2+)	H	Jπ: γ to 1/2+ and 7/2−.
1856.34@ *17*		G	
1868.58 *22*	1/2,3/2,5/2+	H	Jπ: Primary γ from 1/2+.
1877.96 *13*	3/2+,5/2+	C F H	Jπ: L=2 in (d,t).
1883.78 *19*		H	Jπ: γ to 7/2− and (9/2).
1888.68 *13*	1/2+	F H	Jπ: L=0 in (d,t),(^{3}He,α).
1906 *5*	3/2+,5/2+	CD	Jπ: 1985Ro19 suggest J^π=3/2+ from the ratio of spectroscopic factors in (d,t) and (t,d).
1915.7? *4*	3/2+,5/2+	F H	Jπ: L=2 in (d,t).
1919.57 *25*	7/2−	C H	Jπ: L=(2),3 in (pol d,p); γ to 11/2−.

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Adopted Levels, Gammas (continued)

^{127}Te Levels (continued)

E(level)[†‡a]	Jπ[b]	XREF	Comments
1938[&] *5*	7/2+,9/2+	C F	Jπ: L=4 in (d,t),(^{3}He,α).
1954 *5*	1/2+	F	Jπ: L=0 in (d,t).
1955.68[@] *16*		G	
1956.27 *9*	(3/2+,5/2+)	C H	Jπ: L=(1,2) in (pol d,p); γ to 1/2+ and 7/2+.
1959.26 *17*	(3/2−,5/2,7/2+)	C H	Jπ: γ to 3/2+ and 7/2−.
1975.5 *3*	(3/2+,5/2,7/2−)	C F H	Jπ: L=(2),3 in (pol d,p), L=2 in (d,t).
1985.2[#] *15*	(7/2+,9/2+)	C F	Jπ: L=(4) in (pol d,p),(d,t),(^{3}He,α).
1992.67 *16*	1/2,3/2,5/2+	H	Jπ: Primary γ from 1/2+.
2001.7[#] *20*	1/2−,3/2−	CD F	XREF: D(1992). Jπ: L=1 in (t,d),(d,t).
2008 *5*	(1/2+)	F	Jπ: L=(0) in (d,t).
2009.81 *8*	3/2−	C H	Jπ: L=1 in (pol d,p); γ to 5/2+; (L=3 in (t,d)).
2025.8 *5*	7/2−	C H	Jπ: L=3 in (pol d,p).
2026 *5*	3/2+,5/2+	F	Jπ: L=2 in (t,d),(d,t).
2029.99 *12*	(3/2−,5/2,7/2+)	H	Jπ: γ to 3/2+ and 7/2−.
2048.58 *10*	(3/2+,5/2+)	C F H	Jπ: L=2 in (t,d), L=(2) in (d,t).
2056.28 *12*	(3/2+,5/2,7/2+)	H	Jπ: γ to 3/2+ and 7/2+.
2099.8[#] *20*	7/2−	C F	Jπ: L=3 in (pol d,p), (L=2 in (d,t)).
2101.88? *20*		H	
2109.14 *9*	1/2,3/2,5/2+	H	Jπ: Primary γ from 1/2+.
2120.00 *14*	1/2+	C F H	Jπ: L=0 in (d,t), (L=(3) in (t,d)).
2137.5[#] *20*	7/2−	C F	Jπ: L=3 in (pol d,p).
2138.10 *18*	1/2,3/2,5/2+	H	Jπ: Primary γ from 1/2+.
2144.17 *6*	3/2−	C H	Jπ: L=1 in (pol d,p); γ to 7/2−.
2156.82? *20*	1/2,3/2,5/2+	H	Jπ: Primary γ from 1/2+.
2167.1? *4*	7/2−	C H	Jπ: L=3 in (pol d,p).
2175.66 *23*	3/2+,5/2+	F H	Jπ: L=2 in (d,t).
2189.6 *3*		C H	
2196 *5*	7/2+,9/2+	F	Jπ: L=4 (d,t),(^{3}He,α).
2206.752 *20*	3/2−	C H	Jπ: L=1 in (pol d,p); γ to 7/2−.
2217 *5*	3/2+,5/2+	F	Jπ: L=2 (d,t).
2224.93 *15*	1/2+	CD H	Jπ: L=0 in (t,d).
2243.83 *19*	(7/2+,9/2+)	F H	Jπ: L=(4) in (d,t),(^{3}He,α).
2246.05 *15*	3/2−	C H	Jπ: L=1 in (pol d,p).
2254.06 *21*	3/2+,5/2+	D H	Jπ: L=2 in (t,d).
2278.34 *25*	5/2−	C H	Jπ: L=3 in (pol d,p), γ to 3/2+.
2299.2 *4*	(3/2+,5/2,7/2−)	CD H	Jπ: L=(2), 3 in (pol d,p), L=3 in (t,d), (L=1 in (d,p) (1968Gr16)).
2304.7? *3*		H	
2314.26[@] *17*		G	
2317.91 *5*	3/2−	C H	Jπ: L=1 in (pol d,p); γ to 7/2−.
2327.35? *21*		H	
2327.7[#] *25*	7/2−	C	Jπ: L=3 in (pol d,p).
2328.30 *14*	1/2+,3/2,5/2+	H	Jπ: Primary γ from 1/2+; γ to 5/2+.
2338.01 *13*	(3/2−)	C H	Jπ: L=(1) in (pol d,p); γ to 7/2−.
2339.68 *15*	(1/2,3/2,5/2+)	D H	Jπ: γ to 1/2+ and 3/2+.
2357.90 *22*		H	
2359.57 *16*	3/2−	C H	Jπ: L=1 in (pol d,p); γ to 5/2+.
2368.3[#] *25*	7/2+	C	Jπ: L=4 in (pol d,p).
2391.38 *24*		C H	
2401.3[#] *25*	7/2−	C	Jπ: L=3 in (pol d,p).
2417.22[@] *18*		G	
2427.0[#] *25*		C	

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Adopted Levels, Gammas (continued)

^{127}Te Levels (continued)

E(level)[†‡a]	Jπ[b]	XREF	Comments
2429.14 *15*	(3/2+,5/2+)	H	Jπ: Primary γ from 1/2+; γ to 7/2+.
2438.36 *11*	(3/2−)	C H	Jπ: L=(1) in (pol d,p); γ to 5/2+.
2458.41 *20*	(1/2+)	F H	Jπ: L=(0) in (d,t).
2468.90 *4*	1/2−	C H	Jπ: L=1 in (pol d,p).
2473 *5*	(3/2+,5/2+)	D F	Jπ: L=(2) in (d,t).
2492.7 *3*	(1/2,3/2,5/2+)	H	Jπ: γ to 1/2+.
2496.88 *11*	3/2+,5/2+	C H	Jπ: L=2,(3) in (pol d,p); γ to 1/2+.
2519.6 *4*	(5/2,7/2−)	C H	Jπ: L=(2),(3) in (pol d,p); γ to 7/2−.
2554.2? *3*		H	
2561.29 *14*	(1/2−,3/2,5/2+)	C H	Jπ: L=(1) or 2 in (pol d,p).
2592.63 *8*	(3/2−)	C H	Jπ: L=(1) or (3) in (pol d,p); γ to 1/2+ and 7/2−.
2619.22 *7*	1/2−	C H	Jπ: L=1 in (pol d,p).
2667.25 *15*	1/2−	C H	Jπ: L=1 in (pol d,p).
2690.38 *17*	1/2,3/2,5/2+	C H	Jπ: Primary γ from 1/2+.
2700.71 *24*	1/2,3/2,5/2+	C H	Jπ: Primary γ from 1/2+. Could be a doublet.
2713# *3*		C	
2729.72 *9*	3/2+	C H	Jπ: L=2 in (pol d,p).
2759.1 *3*	3/2+	C H	Jπ: L=2 in (pol d,p).
2762.8? *4*		H	
2767# *3*	(3/2+,5/2,7/2−)	C	Jπ: L=2 or (3) in (pol d,p).
2772.96 *12*	(3/2−,5/2+)	H	Jπ: Primary γ from 1/2+; γ to 1/2+ and 7/2−.
2783# *3*	(5/2−,7/2−)	C	Jπ: L=(3) in (pol d,p).
2790# *3*	5/2−	C	Jπ: L=3 in (pol d,p).
2799# *3*		C	
2819# *3*	5/2−	C	Jπ: L=3 in (pol d,p).
2844# *3*	(1/2−,3/2−)	C	Jπ: L=(1) in (pol d,p).
2856.45 *21*	1/2−	C H	Jπ: L=1 in (pol d,p).
2870# *3*	(5/2−,7/2−)	C	Jπ: L=(3) in (pol d,p).
2878.02 *15*	1/2,3/2,5/2+	H	Jπ: Primary γ from 1/2+.
2896# *3*	3/2+,5/2,7/2−	C	Jπ: L=2 or 3 in (pol d,p).
2904.86 *17*		H	Jπ: Primary γ from 1/2+.
2912.97 *19*	(1/2−,3/2−)	C H	Jπ: L=(1) in (pol d,p).
2915.93 *15*	1/2,3/2,5/2+	H	Jπ: Primary γ from 1/2+.
2925# *3*	(1/2−,3/2−)	C	Jπ: L=(1) in (pol d,p).
2932.01 *22*	1/2+,3/2,5/2+	C H	Jπ: Primary γ from 1/2+; γ to 5/2+.
2954.75 *11*	(3/2−)	C H	Jπ: L=(1) in (pol d,p); γ to 5/2+.
2966# *3*	(3/2+,5/2,7/2−)	C	Jπ: L=(2,3) in (pol d,p).
2978.9? *4*		H	
2994.4 *4*	(3/2−,5/2,7/2+)	C H	Jπ: γ to 3/2+ and 7/2−.
3005# *3*		C	
3017# *3*	3/2+,5/2,7/2−	C	Jπ: L=2,3 in (pol d,p).
3035# *3*	3/2+,5/2,7/2−	C	Jπ: L=2,3 in (pol d,p).
3064# *3*	(1/2−,3/2−)	C	Jπ: L=(1) in (pol d,p).
3096# *3*	3/2+,5/2,7/2−	C	Jπ: L=2,3 in (pol d,p).
3128# *3*	7/2−	C	Jπ: L=3 in (pol d,p).
3131.26@ *20*		G	Jπ: high spin state: γ to (23/2+).
3131.6? *4*		H	
3138# *3*		C	
3153.8 *3*	(3/2)−	C H	Jπ: L=1,(3) in (pol d,p); γ to 1/2+ and 5/2+.
3176# *3*		C	

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Adopted Levels, Gammas (continued)

^{127}Te Levels (continued)

E(level)[†‡a]	Jπ[b]	XREF		Comments
3187[#] *3*	(5/2⁻,7/2⁻)	C		Jπ: L=(3) in (pol d,p).
3218[#] *3*		C		
3238[#] *3*	(3/2⁺,5/2,7/2⁻)	C		Jπ: L=(2,3) in (pol d,p).
3252[#] *3*		C		
3254.8 *3*			H	
3265[#] *3*	(3/2⁺,5/2,7/2⁻)	C		Jπ: L=(2,3) in (pol d,p).
3286.8? *5*	(1/2,3/2,5/2⁺)	C	H	Jπ: γ to 1/2⁺ and 5/2⁺.
3304[#] *3*		C		
3314[#] *3*		C		
3342[#] *3*	(3/2⁺,5/2,7/2⁻)	C		Jπ: L=2,3 in (pol d,p).
3375.4? *3*	(1/2⁻,3/2⁻,5/2⁻)	C	H	Jπ: L=(1,3) in (pol d,p).
3392.2 *3*	3/2⁻	C	H	Jπ: L=1 in (pol d,p); γ to 5/2⁺.
3415.97 *20*	3/2⁻	C	H	Jπ: L=1 in (pol d,p); γ to 5/2⁺.
3450[#] *3*	3/2⁻	C		Jπ: L=1 in (pol d,p).
3480[#] *3*		C		
3503[#] *3*		C		
3545.46 *15*	(1/2⁻,3/2⁻)	C	H	Jπ: L=(1) in (pol d,p).
3554[#] *3*		C		
3567.37 *19*	1/2,3/2,5/2⁺		H	Jπ: Primary γ from 1/2⁺.
3572.3? *6*	(3/2⁻)	C	H	Jπ: L=(1) in (pol d,p); γ to 5/2⁺.
3583[#] *3*		C		
3595.8 *6*		C	H	
3609[#] *3*		C		
3615[#] *8*		C		
3653[#] *3*		C		
3661[#] *8*		C		
3679.05 *16*	1/2,3/2,5/2⁺		H	Jπ: Primary γ from 1/2⁺.
3711[&] *8*	(1/2⁻,3/2⁻)	C		Jπ: L=(1) in (d,p).
3719.6 *4*	(1/2,3/2,5/2⁺)		H	Jπ: γ to 1/2⁺ and 3/2⁺.
3739[&] *8*		C		
3749[&] *8*		C		
3764.54 *16*	1/2,3/2,5/2⁺		H	Jπ: Primary γ from 1/2⁺.
3780[&] *8*	(5/2⁻,7/2⁻)	C		Jπ: L=(3) in (d,p).
3814[&] *8*	(1/2⁻,3/2⁻)	C		Jπ: L=(1) in (d,p).
3836.3 *3*	1/2,3/2,5/2⁺	C	H	Jπ: Primary γ from 1/2⁺.
3852.88 *10*	1/2,3/2,5/2⁺		H	Jπ: Primary γ from 1/2⁺.
3865.73 *16*	(3/2⁻,5/2⁺)	C	H	Jπ: Primary γ from 1/2⁺; γ to 7/2⁻.
3883.52 *15*	1/2⁺,3/2,5/2⁺		H	Jπ: Primary γ from 1/2⁺; γ to 5/2⁺.
3891[&] *8*		C		
3908[&] *8*		C		
3922.25 *9*	1/2,3/2,5/2⁺	C	H	Jπ: Primary γ from 1/2⁺.
3954.1? *5*		C	H	
3973.73 *23*	1/2,3/2,5/2⁺		H	Jπ: Primary γ from 1/2⁺.
3983[&] *8*		C		
4000[&] *10*		C		
4022[&] *10*		C		
4036.59 *23*	1/2,3/2,5/2⁺	C	H	Jπ: Primary γ from 1/2⁺.
4057.33 *22*	1/2,3/2,5/2⁺	C	H	Jπ: Primary γ from 1/2⁺.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{127}Te Levels (continued)

E(level)[†‡a]	Jπ[b]	XREF	Comments
4072[&] *10*		C	
4100[&] *10*		C	
4114[&] *10*		C	
4133[&] *10*		C	
4161[&] *10*		C	
4175[&] *10*		C	
4196[&] *10*	1/2$^-$,3/2$^-$	C	Jπ: L=1 in (d,p).
4215[&] *10*		C	
4239[&] *10*	(1/2$^-$,3/2,5/2$^+$)	C	Jπ: L=(1,2) in (d,p).
4258[&] *10*	(1/2$^-$,3/2$^-$)	C	Jπ: L=(1) in (d,p).
4284[&] *10*	1/2$^-$,3/2$^-$	C	Jπ: L=1 in (d,p).
4313[&] *10*		C	
4332[&] *10*	(1/2$^-$,3/2$^-$)	C	Jπ: L=(1) in (d,p).
4353[&] *10*		C	
4386[&] *10*	1/2$^-$,3/2$^-$	C	Jπ: L=1 in (d,p).
4424[&] *10*		C	
4470[&] *10*		C	
4489[&] *10*	1/2$^-$,3/2$^-$	C	Jπ: L=1 in (d,p).
4523[&] *10*		C	
4544[&] *10*		C	
4573[&] *10*		C	
4590[&] *10*		C	
4624[&] *10*		C	
4660[&] *10*		C	
4675[&] *10*		C	
4688[&] *10*		C	
4717[&] *10*		C	
4741[&] *10*		C	
4765[&] *10*	(1/2$^-$,3/2$^-$)	C	Jπ: L=(1) in (d,p).
4796[&] *10*		C	
4812[&] *10*		C	
4841[&] *10*	(1/2$^-$,3/2$^-$)	C	Jπ: L=(1) in (d,p).
4867[&] *10*		C	
4883[&] *10*		C	
4905[&] *10*	(1/2$^-$,3/2$^-$)	C	Jπ: L=(1) in (d,p).
4934[&] *10*		C	
4958[&] *10*	(1/2$^-$,3/2$^-$)	C	Jπ: L=(1) in (d,p).
4995[&] *10*		C	
5017[&] *10*		C	
5050[&] *10*		C	
5070[&] *10*		C	
5102[&] *10*		C	
5130[&] *10*	(1/2,3/2$^-$)	C	Jπ: L=(1,0) in (d,p).
5167[&] *10*		C	

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Adopted Levels, Gammas (continued)

^{127}Te Levels (continued)

E(level)[†‡a]	Jπ[b]	XREF	Comments
5198[&] *10*	(1/2⁻,3/2⁻)	C	Jπ: L=(1) in (d,p).
5223[&] *10*		C	
5254[&] *10*		C	
5286[&] *10*		C	
5297[&] *10*		C	
5317[&] *10*		C	
5338[&] *10*		C	
5365[&] *10*		C	
5380[&] *10*		C	
5407[&] *10*		C	
5417[&] *10*		C	
5441[&] *10*		C	
5475[&] *10*		C	
5498[&] *10*		C	
5531[&] *10*		C	
5545[&] *10*		C	
5570[&] *10*		C	
5584[&] *10*		C	
5603[&] *10*		C	
5623[&] *10*		C	
5634[&] *10*		C	
5655[&] *10*		C	
5675[&] *10*		C	
5700[&] *10*		C	
6287.59 *3*	1/2⁺	H	Jπ: Thermal n capture state. S(n)=6287.8 *4*.

[†] For the levels emitting γ′s, their energies were adjusted from a least-squares fit to E(γ′s).
[‡] From ^{126}Te(n,γ) if not otherwise indicated.
[#] From (pol d,p), (d,p).
[@] From ^{130}Te(^{64}Ni, ^{67}Niγ).
[&] From 1968Gr16.
[a] The 603, 966, 984, 1175 and 2279 keV levels reported by (d,t) were not confirmed by later (d,p) experiment (2005Ho15), and are not adopted. The 366 keV level reported by (p,d) and L=0 level at 632 keV reported by (t,d) are also not supported by any later experiments and are not adopted. The 632 keV level is probably the same level at 623 keV, 1/2⁺ level (evaluator).
[b] J^π values which have been determined in ^{126}Te(pol d,p) are based on the comparison of spectroscopic strength and analyzing power using DWBA calc with experimental angular distributions by 2005Ho15.
[c] L=4 in (d,^{3}He) and (t,α) for ^{127}Sb g.s., L=2 in (d,t),(^{3}He,α) for the 473 level in ^{127}Te, and the existing of a β^- branch connecting these levels uniquely establishes J(^{127}Sb g.s.)=7/2⁺, and J(^{127}Te 473)=5/2⁺.

Adopted Levels, Gammas (continued)

$\gamma(^{127}Te)$

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[@]	δ[@]	α[&]	Comments
61.161	$1/2^+$	61.1 *1*	100	0.0	$3/2^+$	M1+E2	0.32 *+12−17*	3.5 *5*	α(K)=2.66 *20*; α(L)=0.64 *25*; α(M)=0.13 *6*; α(N+..)=0.028 *11* α(N)=0.025 *10*; α(O)=0.0023 *8* E_γ: Weighted mean of values from (n,γ) and ^{127}Sb β^- decay (3.85 d).
88.23	$11/2^-$	88.3 *1*	100	0.0	$3/2^+$	M4		1133	B(M4)(W.u.)=3.6 α(K)=484 *8*; α(L)=504 *8*; α(M)=119.8 *19*; α(N+..)=25.1 *4* α(N)=23.1 *4*; α(O)=1.99 *4* Additional information 1. From ^{127}Te IT decay (106.1 d).
340.87	$(9/2^-)$	252.7 *1*	100.0	88.23	$11/2^-$	D+Q	−2.1 *5*	0.0642 *9*	B(M1)(W.u.)=0.00092; B(E2)(W.u.)=24
473.26	$5/2^+$	412.0 *1*	14.8 *3*	61.161	$1/2^+$	[E2]		0.01432	α(K)=0.01211 *17*; α(L)=0.001777 *25*; α(M)=0.000358 *5*; α(N+..)=7.68×10^{-5} *11* α(N)=6.97×10^{-5} *10*; α(O)=7.11×10^{-6} *10*
		473.3 *1*	100 *5*	0.0	$3/2^+$	(M1+E2)		0.0102 *7*	α(K)=0.0087 *7*; α(L)=0.001154 *17*; α(M)=0.000231 *4*; α(N+..)=5.02×10^{-5} *9* α(N)=4.54×10^{-5} *7*; α(O)=4.82×10^{-6} *18*
501.928	$3/2^+$	440.77 *2*	48.7 *6*	61.161	$1/2^+$	D+Q			
		501.93 *1*	100.0 *10*	0.0	$3/2^+$	D+Q			
622.963	$1/2^+$	561.79 *2*	50.1 *5*	61.161	$1/2^+$				
		622.9 *1*	100.0 *21*	0.0	$3/2^+$				
631.40	$7/2^-$	290.54 *3*	50.0 *5*	340.87	$(9/2^-)$	(M1+E2)		0.040 *3*	α(K)=0.0338 *18*; α(L)=0.0049 *9*; α(M)=0.00099 *19*; α(N+..)=0.00021 *4* α(N)=0.00019 *4*; α(O)=2.0×10^{-5} *3*
		543.2 *1*	100.0 *10*	88.23	$11/2^-$				
685.09	$7/2^+$	183.6 *3*	2.5 *10*	501.928	$3/2^+$				
		212.2 *2*	9.9 *10*	473.26	$5/2^+$				
		624[‡a] *1*	0.18 *6*	61.161	$1/2^+$				
		685.0 *1*	100.0 *10*	0.0	$3/2^+$				
762.64	$3/2^+$	139.3 *7*	1.07 *18*	622.963	$1/2^+$				
		260.6 *3*	2.9 *4*	501.928	$3/2^+$				
		289.40 *22*	8.1 *6*	473.26	$5/2^+$				
		701.4 *4*	41.9 *9*	61.161	$1/2^+$				
		762.6 *1*	100.0 *20*	0.0	$3/2^+$				
782.62	$5/2^+$	280.8 *4*	3.0 *8*	501.928	$3/2^+$	(M1+E2)		0.044 *4*	α(K)=0.0374 *24*; α(L)=0.0055 *11*; α(M)=0.00111 *23*; α(N+..)=0.00024 *5* α(N)=0.00022 *5*; α(O)=2.2×10^{-5} *4*
		309.4 *4*	1.3 *3*	473.26	$5/2^+$	(M1+E2)		0.0332 *18*	α(K)=0.0282 *11*; α(L)=0.0040 *7*; α(M)=0.00081 *13*; α(N+..)=0.00018 *3* α(N)=0.000159 *24*; α(O)=1.64×10^{-5} *17*

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[@]	δ[@]	α[&]	Comments
782.62	5/2$^+$	721.8 *5*	13 *3*	61.161	1/2$^+$				
		782.63 *3*	100.0 *11*	0.0	3/2$^+$	(M1+E2)		0.0029 *4*	α(K)=0.0025 *3*; α(L)=0.00031 *3*; α(M)=6.2×10^{-5} *6*; α(N+..)=1.36×10^{-5} *14* α(N)=1.23×10^{-5} *12*; α(O)=1.33×10^{-6} *15*
785.63	15/2$^-$	697.4[#] *1*	100.0	88.23	11/2$^-$	Q			
786.13	7/2$^-$	154.6 *4*	2.5 *9*	631.40	7/2$^-$	D+Q		0.222 *22*	
		445.26 *3*	100.0 *9*	340.87	(9/2$^-$)	D+Q	−1.0 *4*	0.0126	
		697.9 *1*	91.8 *17*	88.23	11/2$^-$				
924.02	7/2$^+$	239.4 *8*	15 *8*	685.09	7/2$^+$				
		292.6 *3*	35 *8*	631.40	7/2$^-$	E1(+M2)		0.09 *8*	α(K)=0.07 *7*; α(L)=0.011 *10*; α(M)=0.0022 *20*; α(N+..)=0.0005 *5* α(N)=0.0004 *4*; α(O)=5.E−5 *5*
		451.0 *7*	65 *16*	473.26	5/2$^+$	(M1+E2)		0.0115 *6*	α(K)=0.0099 *7*; α(L)=0.001321 *24*; α(M)=0.000264 *6*; α(N+..)=5.74×10^{-5} *9* α(N)=5.19×10^{-5} *9*; α(O)=5.50×10^{-6} *15*
		583.0 *4*	54 *16*	340.87	(9/2$^-$)				
		924.0 *3*	100 *12*	0.0	3/2$^+$				
1075.01	3/2$^+$	292.7 *4*	9 *4*	782.62	5/2$^+$				
		452.2 *3*	39 *4*	622.963	1/2$^+$				
		573.1 *1*	46.3 *19*	501.928	3/2$^+$				
		601.8 *1*	58 *15*	473.26	5/2$^+$				
		1013.8 *6*	100.0 *19*	61.161	1/2$^+$				
		1075.0 *3*	41 *3*	0.0	3/2$^+$				
1077.13	5/2,7/2,9/2	≈153		924.02	7/2$^+$				E_γ: From β^- decay.
		391.8 *3*	21 *8*	685.09	7/2$^+$	D+Q			
		604.1 *2*	100 *15*	473.26	5/2$^+$	D+Q			
1140.20	5/2$^+$	357.4 *5*	9.3 *21*	782.62	5/2$^+$				
		454.9 *3*	34.0 *11*	685.09	7/2$^+$				
		517.3 *1*	100 *5*	622.963	1/2$^+$				
		638.3 *1*	79 *6*	501.928	3/2$^+$	(M1+E2)		0.0047 *5*	α(K)=0.0041 *5*; α(L)=0.00052 *4*; α(M)=0.000103 *8*; α(N+..)=2.26×10^{-5} *17* α(N)=2.04×10^{-5} *15*; α(O)=2.20×10^{-6} *20*
		667.0 *3*	91 *14*	473.26	5/2$^+$				
		1139.90 *23*	38 *7*	0.0	3/2$^+$	D+Q			
1154.70	5/2$^+$	652.8 *1*	100 *12*	501.928	3/2$^+$	D+Q			
		681.3 *2*	89 *6*	473.26	5/2$^+$				
		1155.2[a] *10*	7 *4*	0.0	3/2$^+$				
1183.07	(5/2$^-$,7/2,9/2)	397.0 *3*	100.0 *13*	786.13	7/2$^-$				
		551.7 *1*	89.6 *20*	631.40	7/2$^-$				
		842.2 *1*	89.6 *20*	340.87	(9/2$^-$)				
1289.79	5/2$^+$	527.2 *2*	14.3 *21*	762.64	3/2$^+$				

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[@]
1289.79	5/2+	604.4 *3*	35 *9*	685.09	7/2+	
		666.8 *3*	14 *4*	622.963	1/2+	
		787.9 *1*	61 *7*	501.928	3/2+	
		816.6 *2*	88 *7*	473.26	5/2+	
		1229.6 *7*	33 *4*	61.161	1/2+	
		1289.4 *3*	100 *4*	0.0	3/2+	(D+Q)
1293.21	(3/2+,5/2,7/2+)	530.6 *3*	25 *5*	762.64	3/2+	
		608.5 *3*	20 *5*	685.09	7/2+	
		819.9 *1*	100 *25*	473.26	5/2+	
1309.25	3/2+,5/2+	526.4 *4*	6.4 *16*	782.62	5/2+	
		546.8 *3*	10.4 *24*	762.64	3/2+	
		686.5 *3*	27.2 *24*	622.963	1/2+	
		807.5 *2*	27 *4*	501.928	3/2+	
		835.80 *21*	7.2 *8*	473.26	5/2+	
		1248.0 *3*	36.0 *24*	61.161	1/2+	
		1309.2 *1*	100.0 *24*	0.0	3/2+	
1323.4?		820.6[‡a] *6*	100	501.928	3/2+	
1353.09	(11/2+)	668.0[#] *1*	100.0	685.09	7/2+	
1353.80	3/2−	170.7 *4*	3.8 *9*	1183.07	(5/2−,7/2,9/2)	
		567.6 *3*	9.2 *13*	786.13	7/2−	
		571.3 *2*	10.9 *21*	782.62	5/2+	
		591.3 *2*	10.5 *9*	762.64	3/2+	
		722.60 *20*	100.0 *17*	631.40	7/2−	
		730.8 *1*	25.2 *13*	622.963	1/2+	
		851.6 *4*	3.8 *9*	501.928	3/2+	
		1292.7 *2*	15.1 *17*	61.161	1/2+	
1378.58	5/2+	596.1 *1*	64 *12*	782.62	5/2+	
		615.8 *7*	16.25	762.64	3/2+	
		694.0 *3*	28 *7*	685.09	7/2+	
		905.3 *5*	5.0 *13*	473.26	5/2+	
		1378.4 *1*	100 *8*	0.0	3/2+	
1405.89	1/2+	904.0 *5*	25 *5*	501.928	3/2+	
		932.2 *5*	4.5 *15*	473.26	5/2+	
		1344.9 *4*	100 *8*	61.161	1/2+	
1429.0	7/2+	743.9 *3*	100.0	685.09	7/2+	
1462.0		387.3 *4*	100 *15*	1075.01	3/2+	
		699.0 *4*	71 *15*	762.64	3/2+	
		989.1 *6*	$9.\times10^{1}$ *3*	473.26	5/2+	
1464.02	19/2−	678.2[#] *1*	100.0	785.63	15/2−	Q
1491.8	(7/2+,9/2+)	806.7 *3*	100.0	685.09	7/2+	
1544.86		759.4[#] *1*	100.0	785.63	15/2−	

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Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π
1550.71	(5/2$^-$,7/2,9/2)	764.6 *7*	7.3 *25*	786.13	7/2$^-$
		919.5 *2*	24 *5*	631.40	7/2$^-$
		1209.7 *2*	100 *5*	340.87	(9/2$^-$)
1555.7	5/2$^+$	1053.8 *6*	100.0	501.928	3/2$^+$
1568.13	5/2$^+$	493.5 *4*	87 *13*	1075.01	3/2$^+$
		883.0 *1*	57 *18*	685.09	7/2$^+$
		1094.9 *3*	1.0×10^2 *3*	473.26	5/2$^+$
		1568.5 *6*	9.×10^1 *3*	0.0	3/2$^+$
1608.20	(5/2$^-$,7/2,9/2)	822.1 *2*	47 *3*	786.13	7/2$^-$
		976.8 *8*	100.0 *20*	631.40	7/2$^-$
		1268.1 *7*	7.1 *20*	340.87	(9/2$^-$)
1612.2	7/2$^+$,9/2$^+$	1138.9 *5*	100.0	473.26	5/2$^+$
1616.29	(15/2$^+$)	263.2[#] *1*	100.0	1353.09	(11/2$^+$)
1683.5	3/2$^+$,5/2$^+$	1210.2 *5*	100.0	473.26	5/2$^+$
1687.54	3/2$^-$	504.50 *13*	64 *8*	1183.07	(5/2$^-$,7/2,9/2)
		612.4 *3*	28 *6*	1075.01	3/2$^+$
		901.1 *6*	49 *8*	786.13	7/2$^-$
		1055.8 *7*	44 *8*	631.40	7/2$^-$
		1064.1 *6*	100 *13*	622.963	1/2$^+$
1704.29	3/2$^+$,5/2$^+$	941.9 *6*	100 *14*	762.64	3/2$^+$
		1081.3 *4*	40 *14*	622.963	1/2$^+$
		1231.0 *2*	100 *14*	473.26	5/2$^+$
1758.19	(3/2$^+$,5/2,7/2$^-$)	575.7 *4*	55 *19*	1183.07	(5/2$^-$,7/2,9/2)
		971.9 *4*	73 *19*	786.13	7/2$^-$
		1416.9 *4*	100 *19*	340.87	(9/2$^-$)
1773.09	3/2$^+$,5/2$^+$	990.5 *3*	12 *3*	782.62	5/2$^+$
		1010.2 *4*	2.4 *6*	762.64	3/2$^+$
		1271.1 *1*	100 *7*	501.928	3/2$^+$
		1299.8 *3*	7.9 *19*	473.26	5/2$^+$
		1711.8 *6*	4.3 *19*	61.161	1/2$^+$
		1773.1 *4*	23 *5*	0.0	3/2$^+$
1778.97	(5/2$^-$,7/2$^+$)	992.9 *3*	30.4 *22*	786.13	7/2$^-$
		996.5 *3*	26 *7*	782.62	5/2$^+$
		1147.4 *1*	100 *4*	631.40	7/2$^-$
		1277.3 *6*	9 *4*	501.928	3/2$^+$
		1306.3 *5*	6.5 *22*	473.26	5/2$^+$
		1438.7 *6*	5.4 *22*	340.87	(9/2$^-$)
1803.49	7/2$^+$,9/2$^+$	1118.4 *2*	100.0	685.09	7/2$^+$
1805.54		237.3 *4*	0.000	1568.13	5/2$^+$
		1023.3 *5*	36 *7*	782.62	5/2$^+$
		1043.4 *10*	26 *7*	762.64	3/2$^+$

$^{127}_{52}Te_{75}$-11

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π
1805.54		1332.3 *1*	100 *11*	473.26	5/2$^+$
1815.3	(3/2$^+$,5/2,7/2$^-$)	1028.7 *4*	1.0×10^2 *3*	786.13	7/2$^-$
		1131.0 *5*	43 *15*	685.09	7/2$^+$
1844.80	5/2$^-$	704.6 *2*	100.0	1140.20	5/2$^+$
1846.74	(5/2$^+$)	1064.00 *17*	9.×10^1 *4*	782.62	5/2$^+$
		1083.8 *3*	19.1 *22*	762.64	3/2$^+$
		1161.8 *4*	8.5 *22*	685.09	7/2$^+$
		1215.5 *5*	11 *5*	631.40	7/2$^-$
		1224.2 *4*	17 *5*	622.963	1/2$^+$
		1344.7 *2*	100 *9*	501.928	3/2$^+$
		1373.8 *4*	17 *5*	473.26	5/2$^+$
1856.34		392.3# *1*	100.0	1464.02	19/2$^-$
1868.58	1/2,3/2,5/2$^+$	794.5 *5*	27 *12*	1075.01	3/2$^+$
		1105.7 *5*	12 *4*	762.64	3/2$^+$
		1238.3 *5*	19 *8*	631.40	7/2$^-$
		1245.1 *5*	23 *8*	622.963	1/2$^+$
		1394.5 *5*	100 *12*	473.26	5/2$^+$
1877.96	3/2$^+$,5/2$^+$	1115.9 *3*	13 *3*	762.64	3/2$^+$
		1254.1 *4*	26 *6*	622.963	1/2$^+$
		1376.0 *2*	100 *11*	501.928	3/2$^+$
		1404.9 *4*	21 *8*	473.26	5/2$^+$
		1877.9 *3*	69 *8*	0.0	3/2$^+$
1883.78		700.0 *6*	25 *13*	1183.07	(5/2$^-$,7/2,9/2)
		1097.7 *2*	100 *13*	786.13	7/2$^-$
		1252.5 *5*	44 *13*	631.40	7/2$^-$
1888.68	1/2$^+$	1126.4 *11*	16 *6*	762.64	3/2$^+$
		1265.9 *2*	100 *6*	622.963	1/2$^+$
		1386.6 *10*	26 *6*	501.928	3/2$^+$
		1827.7 *2*	60 *7*	61.161	1/2$^+$
		1888.1 *3*	47 *7*	0.0	3/2$^+$
1915.7?	3/2$^+$,5/2$^+$	1292.7 *4*	100.0	622.963	1/2$^+$
1919.57	7/2$^-$	1579.1 *4*	30 *7*	340.87	(9/2$^-$)
		1831.1 *3*	100 *14*	88.23	11/2$^-$
1955.68		411.0# *1*	80 *8*	1544.86	
		491.5# *1*	100 *12*	1464.02	19/2$^-$
1956.27	(3/2$^+$,5/2$^+$)	1173.5 *3*	33 *9*	782.62	5/2$^+$
		1194.1 *5*	35 *7*	762.64	3/2$^+$
		1271.4 *12*	32 *6*	685.09	7/2$^+$
		1333.2 *1*	100 *11*	622.963	1/2$^+$
		1454.4 *4*	44 *6*	501.928	3/2$^+$
		1483.4 *3*	79 *4*	473.26	5/2$^+$

$^{127}_{52}Te_{75}$-12

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π
1956.27	(3/2$^+$,5/2$^+$)	1895.4 *6*	12 *4*	61.161	1/2$^+$
		1956.6 *4*	53 *11*	0.0	3/2$^+$
1959.26	(3/2$^-$,5/2,7/2$^+$)	775.9 *4*	52 *13*	1183.07	(5/2$^-$,7/2,9/2)
		1173.0 *2*	87 *9*	786.13	7/2$^-$
		1328.6 *6*	22 *9*	631.40	7/2$^-$
		1458.0 *5*	100 *9*	501.928	3/2$^+$
1975.5	(3/2$^+$,5/2,7/2$^-$)	792.7 *5*	55 *19*	1183.07	(5/2$^-$,7/2,9/2)
		1193.0 *6*	6.×10^1 *3*	782.62	5/2$^+$
		1291.2 *6*	45 *19*	685.09	7/2$^+$
		1473.1 *4*	1.0×10^2 *3*	501.928	3/2$^+$
1992.67	1/2,3/2,5/2$^+$	1230.1 *6*	10.0 *25*	762.64	3/2$^+$
		1370.0 *9*	40 *8*	622.963	1/2$^+$
		1490.5 *12*	1.0×10^2 *3*	501.928	3/2$^+$
		1519.40 *25*	4.×10^1 *4*	473.26	5/2$^+$
		1992.8 *3*	18 *18*	0.0	3/2$^+$
2009.81	3/2$^-$	655.9 *5*	2.5 *11*	1353.80	3/2$^-$
		826.7 *3*	4.0 *11*	1183.07	(5/2$^-$,7/2,9/2)
		1227.4 *7*	3.5 *16*	782.62	5/2$^+$
		1247.3 *5*	1.5 *5*	762.64	3/2$^+$
		1386.4 *3*	6.1 *11*	622.963	1/2$^+$
		1508.1 *3*	17 *3*	501.928	3/2$^+$
		1536.7 *3*	18 *3*	473.26	5/2$^+$
		1948.7 *1*	100 *3*	61.161	1/2$^+$
		2009.9 *6*	11 *4*	0.0	3/2$^+$
2025.8	7/2$^-$	1239.7 *5*	100.0	786.13	7/2$^-$
2029.99	(3/2$^-$,5/2,7/2$^+$)	479.4 *2*	53 *20*	1550.71	(5/2$^-$,7/2,9/2)
		846.4 *5*	23 *7*	1183.07	(5/2$^-$,7/2,9/2)
		1243.8 *3*	50 *7*	786.13	7/2$^-$
		1398.7 *3*	40 *7*	631.40	7/2$^-$
		1528.3 *2*	100 *14*	501.928	3/2$^+$
		1556.1 *4*	37 *7*	473.26	5/2$^+$
2048.58	(3/2$^+$,5/2$^+$)	1266.3 *3*	32 *9*	782.62	5/2$^+$
		1286.0 *3*	13.6 *23*	762.64	3/2$^+$
		1425.20 *14*	57 *7*	622.963	1/2$^+$
		1546.9 *2*	100 *9*	501.928	3/2$^+$
		1575.7 *2*	41 *7*	473.26	5/2$^+$
2056.28	(3/2$^+$,5/2,7/2$^+$)	1274.0 *7*	40 *7*	782.62	5/2$^+$
		1371.2 *3*	14.6 *21*	685.09	7/2$^+$
		1554.30 *13*	100 *9*	501.928	3/2$^+$
		1583.7 *6*	13 *5*	473.26	5/2$^+$
2101.88?		1416.9 *2*	100 *11*	685.09	7/2$^+$

$^{127}_{52}Te_{75}$-13

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π
2101.88?		1598.9 *6*	47 *16*	501.928	$3/2^+$
2109.14	$1/2,3/2,5/2^+$	1486.2 *3*	25 *4*	622.963	$1/2^+$
		1607.3 *1*	100 *8*	501.928	$3/2^+$
		1635.5 *3*	72 *12*	473.26	$5/2^+$
2120.00	$1/2^+$	1043.9 *6*	13 *5*	1077.13	5/2,7/2,9/2
		1357.3 *4*	9.8 *17*	762.64	$3/2^+$
		1646.0 *3*	18 *4*	473.26	$5/2^+$
		2058.9 *2*	100 *7*	61.161	$1/2^+$
2138.10	$1/2,3/2,5/2^+$	1515.5 *3*	57 *10*	622.963	$1/2^+$
		1635.9 *6*	43 *15*	501.928	$3/2^+$
		1664.9 *3*	76 *15*	473.26	$5/2^+$
		2136.8 *6*	100 *24*	0.0	$3/2^+$
2144.17	$3/2^-$	364.7 *5*	4.3 *9*	1778.97	$(5/2^-,7/2^+)$
		456.5 *3*	1.7 *5*	1687.54	$3/2^-$
		535.90 *13*	12.4 *13*	1608.20	$(5/2^-,7/2,9/2)$
		834.6 *4*	3.4 *9*	1309.25	$3/2^+,5/2^+$
		961.20 *10*	6.0 *13*	1183.07	$(5/2^-,7/2,9/2)$
		1358.6 *4*	4.7 *13*	786.13	$7/2^-$
		2083.0 *1*	100 *6*	61.161	$1/2^+$
2156.82?	$1/2,3/2,5/2^+$	1394.2 *2*	100 *19*	762.64	$3/2^+$
		1533.8 *7*	45 *19*	622.963	$1/2^+$
2167.1?	$7/2^-$	283.3 *3*	100.0	1883.78	
2175.66	$3/2^+,5/2^+$	1552.9 *3*	100 *16*	622.963	$1/2^+$
		2175.4 *5*	94 *22*	0.0	$3/2^+$
2189.6		638.9 *3*	100 *20*	1550.71	$(5/2^-,7/2,9/2)$
		1403.6 *9*	75 *15*	786.13	$7/2^-$
		1558 *4*	90 *20*	631.40	$7/2^-$
2206.752	$3/2^-$	598.5 *3*	0.65 *11*	1608.20	$(5/2^-,7/2,9/2)$
		852.9 *4*	2.1 *4*	1353.80	$3/2^-$
		1024 *4*	0.65 *22*	1183.07	$(5/2^-,7/2,9/2)$
		1420.3 *13*	0.9 *4*	786.13	$7/2^-$
		1424.10 *11*	2.17 *22*	782.62	$5/2^+$
		1443.9 *2*	5.5 *4*	762.64	$3/2^+$
		1583.8 *1*	6.0 *4*	622.963	$1/2^+$
		1704.8 *8*	7.9 *13*	501.928	$3/2^+$
		1733.1 *4*	1.08 *22*	473.26	$5/2^+$
		2145.57 *1*	100.0 *10*	61.161	$1/2^+$
		2206.8 *1*	26 *6*	0.0	$3/2^+$
2224.93	$1/2^+$	1442.2 *4*	95 *24*	782.62	$5/2^+$
		1462.30 *22*	52 *10*	762.64	$3/2^+$
		1601.5 *4*	1.0×10^2 *4*	622.963	$1/2^+$
		1723.1 *3*	95 *15*	501.928	$3/2^+$

$^{127}_{52}Te_{75}$-14

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π
2224.93	$1/2^+$	1752.0 *4*	43 *10*	473.26	$5/2^+$
2243.83	$(7/2^+,9/2^+)$	1461.2 *2*	88 *13*	782.62	$5/2^+$
		1770.6 *5*	100 *25*	473.26	$5/2^+$
2246.05	$3/2^-$	467.2 *3*	40 *14*	1778.97	$(5/2^-,7/2^+)$
		637.9 *3*	23 *4*	1608.20	$(5/2^-,7/2,9/2)$
		892.3 *6*	73 *14*	1353.80	$3/2^-$
		1062.3 *7*	100 *17*	1183.07	$(5/2^-,7/2,9/2)$
		1744.2 *3*	73 *14*	501.928	$3/2^+$
2254.06	$3/2^+,5/2^+$	646.6 *4*	11 *6*	1608.20	$(5/2^-,7/2,9/2)$
		703.1 *4*	47 *12*	1550.71	$(5/2^-,7/2,9/2)$
		1751.8 *4*	39 *9*	501.928	$3/2^+$
		1780.6 *4*	100 *17*	473.26	$5/2^+$
2278.34	$5/2^-$	1515.2 *4*	11.1 *19*	762.64	$3/2^+$
		1647.3 *4*	33 *8*	631.40	$7/2^-$
		1776.6 *5*	100 *8*	501.928	$3/2^+$
2299.2	$(3/2^+,5/2,7/2^-)$	611.2 *4*	1.0×10^2 *3*	1687.54	$3/2^-$
		1116.9 *5*	$9.\times10^1$ *3*	1183.07	$(5/2^-,7/2,9/2)$
2304.7?		1542.1 *3*	1.0×10^2 *3*	762.64	$3/2^+$
		1801.9 *9*	41 *14*	501.928	$3/2^+$
2314.26		358.6[#] *1*	40 *4*	1955.68	
		457.9[#] *1*	100 *10*	1856.34	
2317.91	$3/2^-$	539.0 *3*	19 *7*	1778.97	$(5/2^-,7/2^+)$
		709.7 *4*	35 *7*	1608.20	$(5/2^-,7/2,9/2)$
		939.5 *3*	56 *4*	1378.58	$5/2^+$
		964.0 *8*	25 *7*	1353.80	$3/2^-$
		1009.3 *6*	29 *5*	1309.25	$3/2^+,5/2^+$
		1134.9 *3*	52 *5*	1183.07	$(5/2^-,7/2,9/2)$
		1177.8 *6*	43 *10*	1140.20	$5/2^+$
		1555.2 *3*	14 *4*	762.64	$3/2^+$
		1686.4 *4*	32 *7*	631.40	$7/2^-$
		1694.7 *2*	75 *7*	622.963	$1/2^+$
		1816.1 *2*	51 *5*	501.928	$3/2^+$
		1844.5 *1*	100 *16*	473.26	$5/2^+$
		2318.1 *6*	22 *7*	0.0	$3/2^+$
2327.35?		1564.7 *2*	100.0	762.64	$3/2^+$
2328.30	$1/2^+,3/2,5/2^+$	1188.4 *4*	48 *16*	1140.20	$5/2^+$
		1545.7 *2*	100 *19*	782.62	$5/2^+$
		1704.9 *3*	33 *6*	622.963	$1/2^+$
		1855.2 *3*	45 *6*	473.26	$5/2^+$
2338.01	$(3/2^-)$	558.6 *4*	3.7 *10*	1778.97	$(5/2^-,7/2^+)$
		729.9 *4*	1.4 *5*	1608.20	$(5/2^-,7/2,9/2)$

$^{127}_{52}Te_{75}$-15

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π
2338.01	(3/2⁻)	1154.5 *5*	8.8 *14*	1183.07	(5/2⁻,7/2,9/2)
		1555.4 *6*	4.1 *19*	782.62	5/2⁺
		1706.4 *3*	100 *5*	631.40	7/2⁻
		1835.6 *7*	3.7 *14*	501.928	3/2⁺
		1865.0 *3*	9.2 *19*	473.26	5/2⁺
		2338.6 *4*	11 *4*	0.0	3/2⁺
2339.68	(1/2,3/2,5/2⁺)	1265.0 *4*	21 *7*	1075.01	3/2⁺
		1577.0 *4*	56 *12*	762.64	3/2⁺
		2278.5 *2*	100 *10*	61.161	1/2⁺
		2339.5 *3*	72 *10*	0.0	3/2⁺
2357.90		1574.7 *4*	96 *25*	782.62	5/2⁺
		1856.1 *3*	100 *13*	501.928	3/2⁺
		1885.1 *5*	38 *9*	473.26	5/2⁺
2359.57	3/2⁻	580.6 *3*	46 *9*	1778.97	(5/2⁻,7/2⁺)
		751.5 *3*	50 *13*	1608.20	(5/2⁻,7/2,9/2)
		1175.7 *5*	42 *13*	1183.07	(5/2⁻,7/2,9/2)
		1578.3 *5*	50 *17*	782.62	5/2⁺
		2359.4 *3*	100 *21*	0.0	3/2⁺
2391.38		612.0 *4*	60 *20*	1778.97	(5/2⁻,7/2⁺)
		1208.2 *6*	50 *10*	1183.07	(5/2⁻,7/2,9/2)
		1605.6 *5*	80 *20*	786.13	7/2⁻
		1760.2 *4*	100 *20*	631.40	7/2⁻
2417.22		953.2# *1*	100.0	1464.02	19/2⁻
2429.14	(3/2⁺,5/2⁺)	1288.5 *5*	49 *18*	1140.20	5/2⁺
		1743.4 *6*	10 *3*	685.09	7/2⁺
		1806.5 *2*	100 *11*	622.963	1/2⁺
		2428.4 *3*	72 *8*	0.0	3/2⁺
2438.36	(3/2⁻)	1655.4 *3*	85 *23*	782.62	5/2⁺
		1675.7 *2*	50 *8*	762.64	3/2⁺
		1936.7 *3*	81 *12*	501.928	3/2⁺
		2377.2 *2*	100 *20*	61.161	1/2⁺
		2438.4 *3*	23 *4*	0.0	3/2⁺
2458.41	(1/2⁺)	1149.1 *6*	27 *9*	1309.25	3/2⁺,5/2⁺
		1676.0 *3*	100 *23*	782.62	5/2⁺
		1836.1 *7*	23 *9*	622.963	1/2⁺
		1984.8 *3*	59 *9*	473.26	5/2⁺
2468.90	1/2⁻	459.6 *5*	1.7 *5*	2009.81	3/2⁻
		1062.9 *3*	3.4 *5*	1405.89	1/2⁺
		1394.1 *5*	2.1 *9*	1075.01	3/2⁺
		1706.4 *5*	3.4 *9*	762.64	3/2⁺
		1845.9 *3*	7.6 *9*	622.963	1/2⁺

$^{127}_{52}Te_{75}$-16

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ [†]	I_γ	E_f	J_f^π
2468.90	1/2$^-$	1966.9 *5*	2.1 *5*	501.928	3/2$^+$
		2407.9 *1*	35.2 *13*	61.161	1/2$^+$
		2469.0 *1*	100.0 *22*	0.0	3/2$^+$
2492.7	(1/2,3/2,5/2$^+$)	1869.5 *3*	100 *16*	622.963	1/2$^+$
		1991.5 *6*	53 *16*	501.928	3/2$^+$
2496.88	3/2$^+$,5/2$^+$	717.9 *4*	22 *5*	1778.97	(5/2$^-$,7/2$^+$)
		889.1 *2*	9 *5*	1608.20	(5/2$^-$,7/2,9/2)
		1313.2 *3*	25 *5*	1183.07	(5/2$^-$,7/2,9/2)
		2435.5 *2*	1.0×10^2 *3*	61.161	1/2$^+$
2519.6	(5/2,7/2$^-$)	911.1 *5*	33 *12*	1608.20	(5/2$^-$,7/2,9/2)
		1888.3 *4*	100 *23*	631.40	7/2$^-$
2554.2?		2080.9 *3*	100.0	473.26	5/2$^+$
2561.29	(1/2$^-$,3/2,5/2$^+$)	243.1 *3*	21 *6*	2317.91	3/2$^-$
		354.1 *10*	1.0×10^2 *4*	2206.752	3/2$^-$
		952.9 *7*	35 *6*	1608.20	(5/2$^-$,7/2,9/2)
		1207.4 *4*	24 *6*	1353.80	3/2$^-$
		1378.0 *3*	41 *9*	1183.07	(5/2$^-$,7/2,9/2)
		2500.2 *6*	32 *9*	61.161	1/2$^+$
		2561.8 *3*	68 *9*	0.0	3/2$^+$
2592.63	(3/2$^-$)	403.2 *7*	23 *5*	2189.6	
		813.4 *3*	38 *10*	1778.97	(5/2$^-$,7/2$^+$)
		984.1 *4*	80 *10*	1608.20	(5/2$^-$,7/2,9/2)
		1187.2 *8*	33 *5*	1405.89	1/2$^+$
		1238.6 *8*	35 *10*	1353.80	3/2$^-$
		1283.5 *6*	15.0 *25*	1309.25	3/2$^+$,5/2$^+$
		1409.0 *9*	38 *8*	1183.07	(5/2$^-$,7/2,9/2)
		1805.2 *6*	20 *5*	786.13	7/2$^-$
		1969.6 *5*	23 *5*	622.963	1/2$^+$
		2090.7 *2*	90 *10*	501.928	3/2$^+$
		2592.5 *3*	100 *10*	0.0	3/2$^+$
2619.22	1/2$^-$	475.2 *5*	6.6 *17*	2144.17	3/2$^-$
		1265.8 *5*	5.0 *17*	1353.80	3/2$^-$
		2117.3 *2*	47.9 *25*	501.928	3/2$^+$
		2557.9 *1*	100 *4*	61.161	1/2$^+$
		2619.2 *3*	21 *4*	0.0	3/2$^+$
2667.25	1/2$^-$	1313.8 *3*	19 *7*	1353.80	3/2$^-$
		2044.5 *5*	22 *7*	622.963	1/2$^+$
		2606.9 *8*	9 *4*	61.161	1/2$^+$
		2667.1 *3*	100 *16*	0.0	3/2$^+$
2690.38	1/2,3/2,5/2$^+$	1507.6 *4*	27 *9*	1183.07	(5/2$^-$,7/2,9/2)
		2059.1 *3*	27 *9*	631.40	7/2$^-$

$^{127}_{52}Te_{75}$-17

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π
2690.38	1/2,3/2,5/2$^+$	2067.1 *7*	27 *9*	622.963	1/2$^+$
		2187.5 *7*	41 *14*	501.928	3/2$^+$
		2217.2 *5*	41 *9*	473.26	5/2$^+$
		2629.2 *4*	100 *23*	61.161	1/2$^+$
		2690.5 *6*	45 *14*	0.0	3/2$^+$
2700.71	1/2,3/2,5/2$^+$	2700.5 *3*	100.0	0.0	3/2$^+$
2729.72	3/2$^+$	1546.8 *2*	100 *10*	1183.07	(5/2$^-$,7/2,9/2)
		1967.0 *1*	1.0×10^2 *4*	762.64	3/2$^+$
		2668.9 *4*	100 *25*	61.161	1/2$^+$
		2729.5 *4*	100 *25*	0.0	3/2$^+$
2759.1	3/2$^+$	2759.0 *3*	100.0	0.0	3/2$^+$
2762.8?		2289.4 *7*	40 *20*	473.26	5/2$^+$
		2762.2 *7*	1.0×10^2 *4*	0.0	3/2$^+$
2772.96	(3/2$^-$,5/2$^+$)	885.6 *7*	100 *16*	1888.68	1/2$^+$
		993.9 *3*	6.×10^1 *4*	1778.97	(5/2$^-$,7/2$^+$)
		1164.5 *2*	47 *6*	1608.20	(5/2$^-$,7/2,9/2)
		1698.7 *7*	16 *6*	1075.01	3/2$^+$
		1987.3 *6*	42 *11*	786.13	7/2$^-$
		2150.2 *6*	42 *16*	622.963	1/2$^+$
		2299.4 *7*	47 *16*	473.26	5/2$^+$
		2711.7 *4*	53 *21*	61.161	1/2$^+$
		2773.7 *5*	37 *16*	0.0	3/2$^+$
2856.45	1/2$^-$	1502.6 *3*	63 *10*	1353.80	3/2$^-$
		2795.4 *3*	1.0×10^2 *3*	61.161	1/2$^+$
2878.02	1/2,3/2,5/2$^+$	1588.5 *4*	70 *20*	1289.79	5/2$^+$
		1693.9 *6*	30 *10*	1183.07	(5/2$^-$,7/2,9/2)
		2115.8 *6*	40 *15*	762.64	3/2$^+$
		2376.4 *4*	55 *20*	501.928	3/2$^+$
		2404.9 *6*	35 *15*	473.26	5/2$^+$
		2816.7 *3*	1.0×10^2 *4*	61.161	1/2$^+$
		2877.7 *8*	20 *10*	0.0	3/2$^+$
2904.86		2122.1 *2*	100 *8*	782.62	5/2$^+$
		2404.0 *5*	34 *8*	501.928	3/2$^+$
		2430.1 *7*	21 *6*	473.26	5/2$^+$
2912.97	(1/2$^-$,3/2$^-$)	1225.2 *3*	100 *23*	1687.54	3/2$^-$
		1559.9 *4*	54 *23*	1353.80	3/2$^-$
		1730.0 *7*	38 *16*	1183.07	(5/2$^-$,7/2,9/2)
		2151.0 *5*	62 *23*	762.64	3/2$^+$
		2289.4 *6*	62 *16*	622.963	1/2$^+$
		2851.7 *6*	69.23	61.161	1/2$^+$
2915.93	1/2,3/2,5/2$^+$	1561.6 *4*	28 *12*	1353.80	3/2$^-$

$^{127}_{52}Te_{75}$-18

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ †	I_γ	E_f	J_f^π
2915.93	1/2,3/2,5/2$^+$	1733.6 *4*	28 *6*	1183.07	(5/2$^-$,7/2,9/2)
		2292.9 *4*	64 *12*	622.963	1/2$^+$
		2442.1 *5*	42 *12*	473.26	5/2$^+$
		2916.5 *3*	100 *12*	0.0	3/2$^+$
2932.01	1/2$^+$,3/2,5/2$^+$	1323.1 *6*	25 *9*	1608.20	(5/2$^-$,7/2,9/2)
		1623.7 *5*	67 *17*	1309.25	3/2$^+$,5/2$^+$
		1748.6 *7*	1.0×10^2 *4*	1183.07	(5/2$^-$,7/2,9/2)
		2309.2 *5*	75 *17*	622.963	1/2$^+$
		2458.6 *7*	67 *25*	473.26	5/2$^+$
2954.75	(3/2$^-$)	945.3 *3*	32 *5*	2009.81	3/2$^-$
		1066.4 *7*	86 *14*	1888.68	1/2$^+$
		1346.6 *3*	32 *9*	1608.20	(5/2$^-$,7/2,9/2)
		1770.7 *7*	1.0×10^2 *4*	1183.07	(5/2$^-$,7/2,9/2)
		2192.5 *5*	59 *19*	762.64	3/2$^+$
		2331.5 *6*	36 *9*	622.963	1/2$^+$
		2454.5 *12*	36 *14*	501.928	3/2$^+$
		2481.4 *3*	64 *14*	473.26	5/2$^+$
		2955.2 *9*	59 *23*	0.0	3/2$^+$
2978.9?		1625.3 *5*	88 *25*	1353.80	3/2$^-$
		2505.5 *5*	100 *25*	473.26	5/2$^+$
2994.4	(3/2$^-$,5/2,7/2$^+$)	2363.3 *5*	67 *20*	631.40	7/2$^-$
		2492.1 *5*	1.0×10^2 *3*	501.928	3/2$^+$
3131.26		817.0 *1*	100.0	2314.26	
3131.6?		1948.6 *5*	1.0×10^2 *3*	1183.07	(5/2$^-$,7/2,9/2)
		2348.8 *7*	70 *20*	782.62	5/2$^+$
3153.8	(3/2)$^-$	1306.2 *5*	0.000	1846.74	(5/2$^+$)
		2371.4 *8*	8.×10^1 *4*	782.62	5/2$^+$
		2680.1 *6*	58 *17*	473.26	5/2$^+$
		3093.9 *7*	66.67	61.161	1/2$^+$
		3154.5 *7*	100 *25*	0.0	3/2$^+$
3254.8		2115.6 *7*	1.0×10^2 *4*	1140.20	5/2$^+$
		2491.7 *4*	64 *22*	762.64	3/2$^+$
		2781.8 *5*	79 *15*	473.26	5/2$^+$
3286.8?	(1/2,3/2,5/2$^+$)	2523.4 *6*	75 *25*	762.64	3/2$^+$
		2664.6 *6*	100 *25*	622.963	1/2$^+$
3375.4?	(1/2$^-$,3/2$^-$,5/2$^-$)	2873.4 *3*	100.0	501.928	3/2$^+$
3392.2	3/2$^-$	2209.0 *5*	65 *18*	1183.07	(5/2$^-$,7/2,9/2)
		2630.7 *8*	29.41	762.64	3/2$^+$
		2769.6 *6*	6.×10^1 *3*	622.963	1/2$^+$
		2918.6 *4*	100 *18*	473.26	5/2$^+$
		3392.2 *9*	29 *12*	0.0	3/2$^+$

$^{127}_{52}Te_{75}$-19

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J^{π}_i	E_{γ} †	I_{γ}	E_f	J^{π}_f
3415.97	3/2$^-$	1637.2 *5*	65 *24*	1778.97	(5/2$^-$,7/2$^+$)
		2233.4 *6*	100 *24*	1183.07	(5/2$^-$,7/2,9/2)
		2653.2 *6*	94 *24*	762.64	3/2$^+$
		2793.3 *5*	94 *12*	622.963	1/2$^+$
		2912.7 *5*	94 *18*	501.928	3/2$^+$
		2943.6 *8*	65 *18*	473.26	5/2$^+$
3545.46	(1/2$^-$,3/2$^-$)	3484.4 *3*	78 *9*	61.161	1/2$^+$
		3545.5 *3*	100 *13*	0.0	3/2$^+$
3567.37	1/2,3/2,5/2$^+$	2804.3 *8*	16 *4*	762.64	3/2$^+$
		2943.3 *6*	32 *12*	622.963	1/2$^+$
		3094.9 *5*	100 *16*	473.26	5/2$^+$
		3506.6 *4*	44 *20*	61.161	1/2$^+$
		3567.6 *5*	40 *20*	0.0	3/2$^+$
3572.3?	(3/2$^-$)	3099.0 *6*	100.0	473.26	5/2$^+$
3595.8		3093.8 *6*	100.0	501.928	3/2$^+$
3679.05	1/2,3/2,5/2$^+$	1649.4 *3*		2029.99	(3/2$^-$,5/2,7/2$^+$)
		2496.4 *6*		1183.07	(5/2$^-$,7/2,9/2)
		3617.3 *11*		61.161	1/2$^+$
		3679.0 *6*		0.0	3/2$^+$
3719.6	(1/2,3/2,5/2$^+$)	2956.1 *7*	1.0×10^2 *5*	762.64	3/2$^+$
		3218.5 *7*	1.0×10^2 *5*	501.928	3/2$^+$
		3658.9 *7*	1.0×10^2 *5*	61.161	1/2$^+$
		3718.9 *9*	8.×10^1 *5*	0.0	3/2$^+$
3764.54	1/2,3/2,5/2$^+$	2077.2 *3*	68 *24*	1687.54	3/2$^-$
		2580.8 *8*	32 *12*	1183.07	(5/2$^-$,7/2,9/2)
		2624.2 *6*	9.×10^1 *4*	1140.20	5/2$^+$
		3704.1 *9*	1.0×10^2 *3*	61.161	1/2$^+$
3836.3	1/2,3/2,5/2$^+$	3334.6 *6*	57 *18*	501.928	3/2$^+$
		3776.3 *8*	48 *13*	61.161	1/2$^+$
		3835.9 *6*	1.0×10^2 *3*	0.0	3/2$^+$
3852.88	1/2,3/2,5/2$^+$	2669.9 *3*	69 *23*	1183.07	(5/2$^-$,7/2,9/2)
		3350.2 *6*	1.0×10^2 *5*	501.928	3/2$^+$
		3380.1 *5*	7.×10^1 *3*	473.26	5/2$^+$
3865.73	(3/2$^-$,5/2$^+$)	2061.0 *5*	6.×10^1 *3*	1805.54	
		2683.1 *9*	1.0×10^2 *5*	1183.07	(5/2$^-$,7/2,9/2)
		3235.2 *8*	1.0×10^2 *3*	631.40	7/2$^-$
		3363.3 *4*	1.0×10^2 *5*	501.928	3/2$^+$
		3804.9 *5*	4.×10^1 *3*	61.161	1/2$^+$
3883.52	1/2$^+$,3/2,5/2$^+$	2529.8 *7*	25 *9*	1353.80	3/2$^-$
		3409.5 *5*	23 *6*	473.26	5/2$^+$

$^{127}_{52}$Te$_{75}$-20

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ	E_f	J_f^π	Mult.[@]	α[&]	Comments
3883.52	1/2$^+$,3/2,5/2$^+$	3821.8 *4*	72 *18*	61.161	1/2$^+$			
		3883.9 *3*	100 *23*	0.0	3/2$^+$			
3922.25	1/2,3/2,5/2$^+$	2568.7 *6*	56 *15*	1353.80	3/2$^-$			
		3860.9 *2*	100 *23*	61.161	1/2$^+$			
		3922.7 *6*	22 *8*	0.0	3/2$^+$			
3954.1?		3480.6 *6*	25 *13*	473.26	5/2$^+$			
		3954.5 *9*	100 *4*	0.0	3/2$^+$			
3973.73	1/2,3/2,5/2$^+$	2680.1 *6*	26 *8*	1293.21	(3/2$^+$,5/2,7/2$^+$)			
		3912.7 *5*	1.0×10^2 *6*	61.161	1/2$^+$			
		3974.3 *8*	5.×10^1 *3*	0.0	3/2$^+$			
4036.59	1/2,3/2,5/2$^+$	3975.3 *4*		61.161	1/2$^+$			
		4036.2 *8*		0.0	3/2$^+$			
4057.33	1/2,3/2,5/2$^+$	3584.0 *5*	7.×10^1 *4*	473.26	5/2$^+$			
		3996.4 *4*	1.0×10^2 *5*	61.161	1/2$^+$			
6287.59	1/2$^+$	2230.4 *3*	3.1 *6*	4057.33	1/2,3/2,5/2$^+$			
		2250.9 *3*	1.7	4036.59	1/2,3/2,5/2$^+$			
		2313.9 *3*	3 *3*	3973.73	1/2,3/2,5/2$^+$			
		2365.3 *1*	7.3 *3*	3922.25	1/2,3/2,5/2$^+$			
		2404.0 *2*	3.7 *3*	3883.52	1/2$^+$,3/2,5/2$^+$			
		2422.0 *2*	4 *3*	3865.73	(3/2$^-$,5/2$^+$)			
		2434.7 *1*	5.1 *4*	3852.88	1/2,3/2,5/2$^+$			
		2451.5 *4*	2.5 *4*	3836.3	1/2,3/2,5/2$^+$			
		2523.1 *2*	6.3 *4*	3764.54	1/2,3/2,5/2$^+$			
		2608.7 *2*	4.5 *3*	3679.05	1/2,3/2,5/2$^+$			
		2720.5 *3*	2.5 *4*	3567.37	1/2,3/2,5/2$^+$			
		2742.2 *2*	5.2 *3*	3545.46	(1/2$^-$,3/2$^-$)	(E1)	0.001190 *17*	α(K)=0.0001012 *15*; α(L)=1.179×10^{-5} *17*; α(M)=2.33×10^{-6} *4*; α(N+..)=0.001075 α(N)=4.61×10^{-7} *7*; α(O)=5.07×10^{-8} *7*; α(IPF)=0.001074 *15*
		2871.5 *4*	2.7 *3*	3415.97	3/2$^-$	(E1)	0.001253 *18*	α(K)=9.47×10^{-5} *14*; α(L)=1.102×10^{-5} *16*; α(M)=2.18×10^{-6} *3*; α(N+..)=0.001145 *1* α(N)=4.31×10^{-7} *6*; α(O)=4.74×10^{-8} *7*; α(IPF)=0.001144 *16*
		2896 *2*	4.2 *3*	3392.2	3/2$^-$	(E1)	0.001264 *18*	α(K)=9.35×10^{-5} *14*; α(L)=1.089×10^{-5} *16*; α(M)=2.15×10^{-6} *3*; α(N+..)=0.001157 *1* α(N)=4.26×10^{-7} *6*; α(O)=4.68×10^{-8} *7*; α(IPF)=0.001157 *17*
		3332.90 *14*	6.6 *4*	2954.75	(3/2$^-$)	(E1)	0.001464 *21*	α(K)=7.67×10^{-5} *11*; α(L)=8.91×10^{-6} *13*; α(M)=1.760×10^{-6} *25*; α(N+..)=0.001376

$^{127}_{52}Te_{75}$-21

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	E_γ[†]	I_γ	E_f	J^π_f	Mult.[@]	α[&]	Comments
							α(K)=7.67×10^{-5} *11*; α(L)=8.91×10^{-6} *13*; α(M)=1.760×10^{-6} *25*; α(N+..)=0.001376 α(N)=3.49×10^{-7} *5*; α(O)=3.83×10^{-8} *6*; α(IPF)=0.001376 *20*
6287.59	3355.8 *4*	2 *4*	2932.01	1/2$^+$,3/2,5/2$^+$			
	3372.1 *3*	7.1 *5*	2915.93	1/2,3/2,5/2$^+$			
	3374.2 *6*	3.3 *5*	2912.97	(1/2$^-$,3/2$^-$)			
	3382.3 *5*	3.7 *12*	2904.86				
	3409.6 *3*	3.2 *4*	2878.02	1/2,3/2,5/2$^+$			
	3431.5 *6*	1.5 *4*	2856.45	1/2$^-$	(E1)	0.001505 *21*	α(K)=7.37×10^{-5} *11*; α(L)=8.56×10^{-6} *12*; α(M)=1.690×10^{-6} *24*; α(N+..)=0.001421 α(N)=3.35×10^{-7} *5*; α(O)=3.68×10^{-8} *6*; α(IPF)=0.001420 *20*
	3514.6 *2*	4.4 *4*	2772.96	(3/2$^-$,5/2$^+$)			
	3524.2 *6*	1.2 *1*	2762.8?				
	3528.4 *5*	3.2 *5*	2759.1	3/2$^+$			
	3557.6 *3*	4.5 *6*	2729.72	3/2$^+$			
	3586.5 *4*	1.4 *3*	2700.71	1/2,3/2,5/2$^+$			
	3597.6 *5*	1.6 *3*	2690.38	1/2,3/2,5/2$^+$			
	3620.50 *21*	4.6 *4*	2667.25	1/2$^-$	(E1)	0.001574 *22*	α(K)=6.84×10^{-5} *10*; α(L)=7.94×10^{-6} *12*; α(M)=1.568×10^{-6} *22*; α(N+..)=0.001496 α(N)=3.11×10^{-7} *5*; α(O)=3.42×10^{-8} *5*; α(IPF)=0.001496 *21*
	3668.2 *1*	11.3 *3*	2619.22	1/2$^-$	(E1)	0.001594 *23*	α(K)=6.72×10^{-5} *10*; α(L)=7.80×10^{-6} *11*; α(M)=1.540×10^{-6} *22*; α(N+..)=0.001518 α(N)=3.05×10^{-7} *5*; α(O)=3.36×10^{-8} *5*; α(IPF)=0.001517 *22*
	3694.8 *1*	11 *5*	2592.63	(3/2$^-$)			
	3726.2 *3*	3.2 *3*	2561.29	(1/2$^-$,3/2,5/2$^+$)			
	3790.6 *2*	4.9 *3*	2496.88	3/2$^+$,5/2$^+$			
	3818.66 *3*	49 *7*	2468.90	1/2$^-$	(E1)	0.001659 *24*	α(K)=6.36×10^{-5} *9*; α(L)=7.38×10^{-6} *11*; α(M)=1.457×10^{-6} *21*; α(N+..)=0.001586 *2* α(N)=2.89×10^{-7} *4*; α(O)=3.18×10^{-8} *5*; α(IPF)=0.001586 *23*
	3849.2 *3*	4.1 *4*	2438.36	(3/2$^-$)			
	3857.9 *4*	3.3 *5*	2429.14	(3/2$^+$,5/2$^+$)			
	3928.7 *6*	1.8 *4*	2359.57	3/2$^-$			
	3949.5 *3*	2.4 *3*	2338.01	(3/2$^-$)			
	3959.1 *6*	2.5 *9*	2328.30	1/2$^+$,3/2,5/2$^+$			
	3969.58 *6*	18.4 *4*	2317.91	3/2$^-$	(E1)	0.001715 *24*	α(K)=6.04×10^{-5} *9*; α(L)=7.00×10^{-6} *10*; α(M)=1.382×10^{-6} *20*; α(N+..)=0.001646 *2* α(N)=2.74×10^{-7} *4*; α(O)=3.01×10^{-8} *5*; α(IPF)=0.001646 *23*
	4041.6 *3*	4.2 *5*	2246.05	3/2$^-$	(E1)	0.001742 *25*	α(K)=5.89×10^{-5} *9*; α(L)=6.83×10^{-6} *10*; α(M)=1.349×10^{-6} *19*; α(N+..)=0.001675 *2* α(N)=2.67×10^{-7} *4*; α(O)=2.94×10^{-8} *5*; α(IPF)=0.001675 *24*

$^{127}_{52}Te_{75}$-22

Adopted Levels, Gammas (continued)

γ(^{127}Te) (continued)

E_i(level)	E_γ[†]	I_γ	E_f	J^π_f	Mult.[@]	α[&]	Comments
6287.59	4080.75 *3*	100 *10*	2206.752	3/2$^-$	(E1)	0.001757 *25*	α(K)=5.82×10^{-5} *9*; α(L)=6.75×10^{-6} *10*; α(M)=1.332×10^{-6} *19*; α(N+..)=0.001690 *2* α(N)=2.64×10^{-7} *4*; α(O)=2.90×10^{-8} *4*; α(IPF)=0.001690 *24*
	4112.2 *5*	2.1 *4*	2175.66	3/2$^+$,5/2$^+$			
	4131.1 *10*		2156.82?	1/2,3/2,5/2$^+$			
	4143.4 *1*	18.0 *4*	2144.17	3/2$^-$	(E1)	0.001780 *25*	α(K)=5.70×10^{-5} *8*; α(L)=6.61×10^{-6} *10*; α(M)=1.305×10^{-6} *19*; α(N+..)=0.001715 *2* α(N)=2.59×10^{-7} *4*; α(O)=2.84×10^{-8} *4*; α(IPF)=0.001715 *24*
	4149.6 *5*	1.9 *9*	2138.10	1/2,3/2,5/2$^+$			
	4167.2 *3*	1.6 *3*	2120.00	1/2$^+$			
	4178.9 *3*	2.4 *4*	2109.14	1/2,3/2,5/2$^+$			
	4277.7 *7*	16.5 *4*	2009.81	3/2$^-$	(E1)	0.00183 *3*	α(K)=5.46×10^{-5} *8*; α(L)=6.33×10^{-6} *9*; α(M)=1.250×10^{-6} *18*; α(N+..)=0.001766 *25* α(N)=2.48×10^{-7} *4*; α(O)=2.72×10^{-8} *4*; α(IPF)=0.001765 *25*
	4295.0 *3*	3.5 *4*	1992.67	1/2,3/2,5/2$^+$			
	4331.1 *3*	3.4 *4*	1956.27	(3/2$^+$,5/2$^+$)			
	4399 *4*	3 *4*	1888.68	1/2$^+$			
	4410.2 *9*		1877.96	3/2$^+$,5/2$^+$			
	4419.9 *7*	2.2 *15*	1868.58	1/2,3/2,5/2$^+$			
	4482.2 *6*	1.8 *4*	1805.54				
	4514.1 *2*	6.5 *4*	1773.09	3/2$^+$,5/2$^+$			
	4600.7 *7*		1687.54	3/2$^-$	(E1)	0.00194 *3*	α(K)=4.96×10^{-5} *7*; α(L)=5.75×10^{-6} *8*; α(M)=1.135×10^{-6} *16*; α(N+..)=0.00188 *3* α(N)=2.25×10^{-7} *4*; α(O)=2.47×10^{-8} *4*; α(IPF)=0.00188 *3*
	4933.9 *2*	14.2 *10*	1353.80	3/2$^-$	(E1)	0.00204 *3*	α(K)=4.53×10^{-5} *7*; α(L)=5.24×10^{-6} *8*; α(M)=1.035×10^{-6} *15*; α(N+..)=0.00199 *3* α(N)=2.05×10^{-7} *3*; α(O)=2.26×10^{-8} *4*; α(IPF)=0.00199 *3*
	4977.8 *3*	1.7 *5*	1309.25	3/2$^+$,5/2$^+$			
	5212.2 *7*	1.5 *4*	1075.01	3/2$^+$			
	5664.0 *3*	7.5 *4*	622.963	1/2$^+$			
	5785.3 *3*	6.7 *5*	501.928	3/2$^+$			
	5814.0 *3*	3.7 *5*	473.26	5/2$^+$			
	6226.5 *5*	5.9 *9*	61.161	1/2$^+$			
	6287.2 *1*	21.2 *7*	0.0	3/2$^+$			

[†] From 2005Ho15 in (n,γ), if not otherwise noted.
[‡] From ^{127}Sb β$^-$ decay (3.85 d).
[#] From ^{130}Te (^{64}Ni, ^{67}Niγ).
[@] From ^{127}Sb β$^-$ decay (3.85 d).

$^{127}_{52}Te_{75}$-23

Adopted Levels, Gammas (continued)

$\gamma(^{127}Te)$ (continued)

& 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.

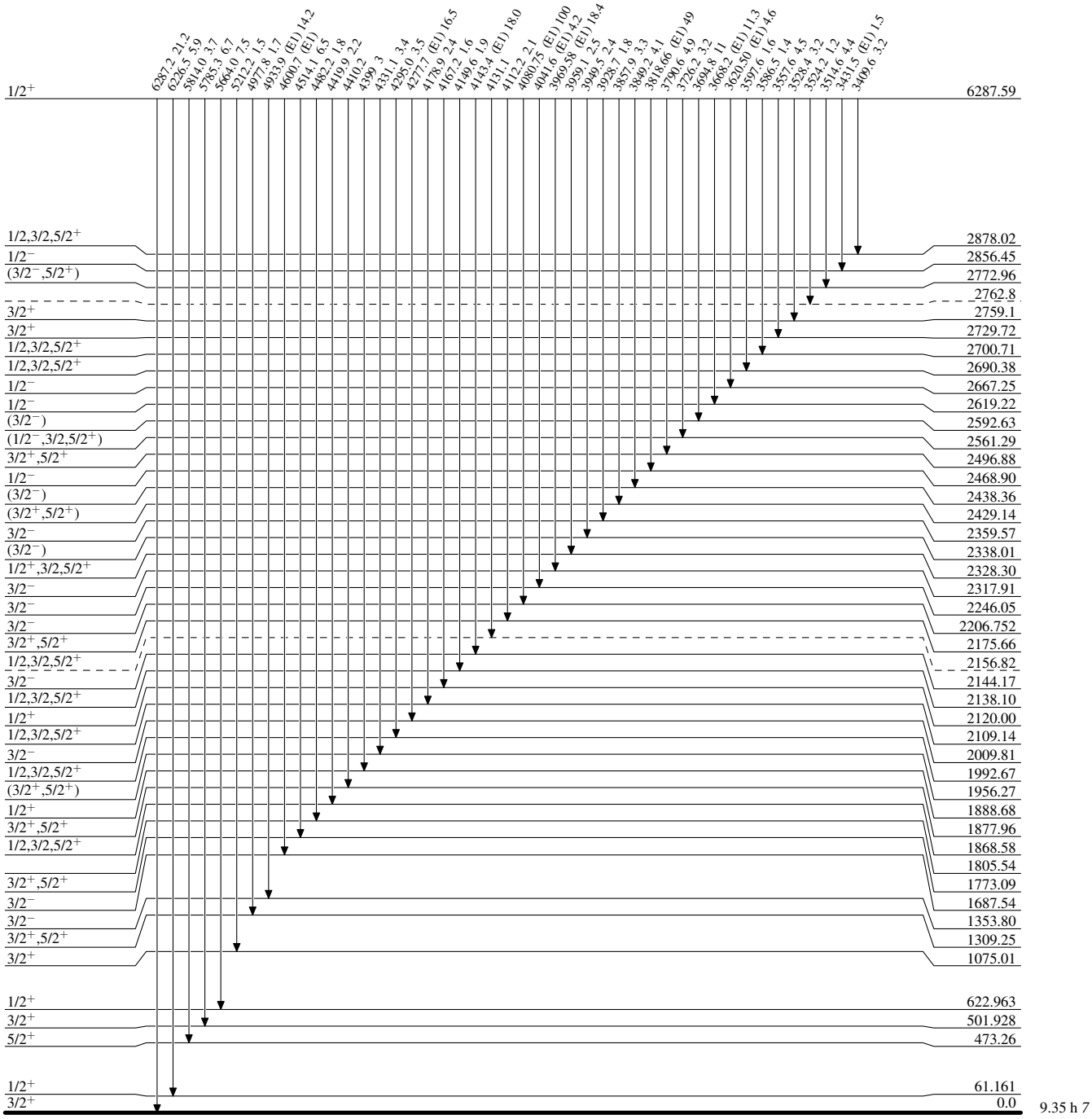
[a] Placement of transition in the level scheme is uncertain.

$^{127}_{52}Te_{75}$-24

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

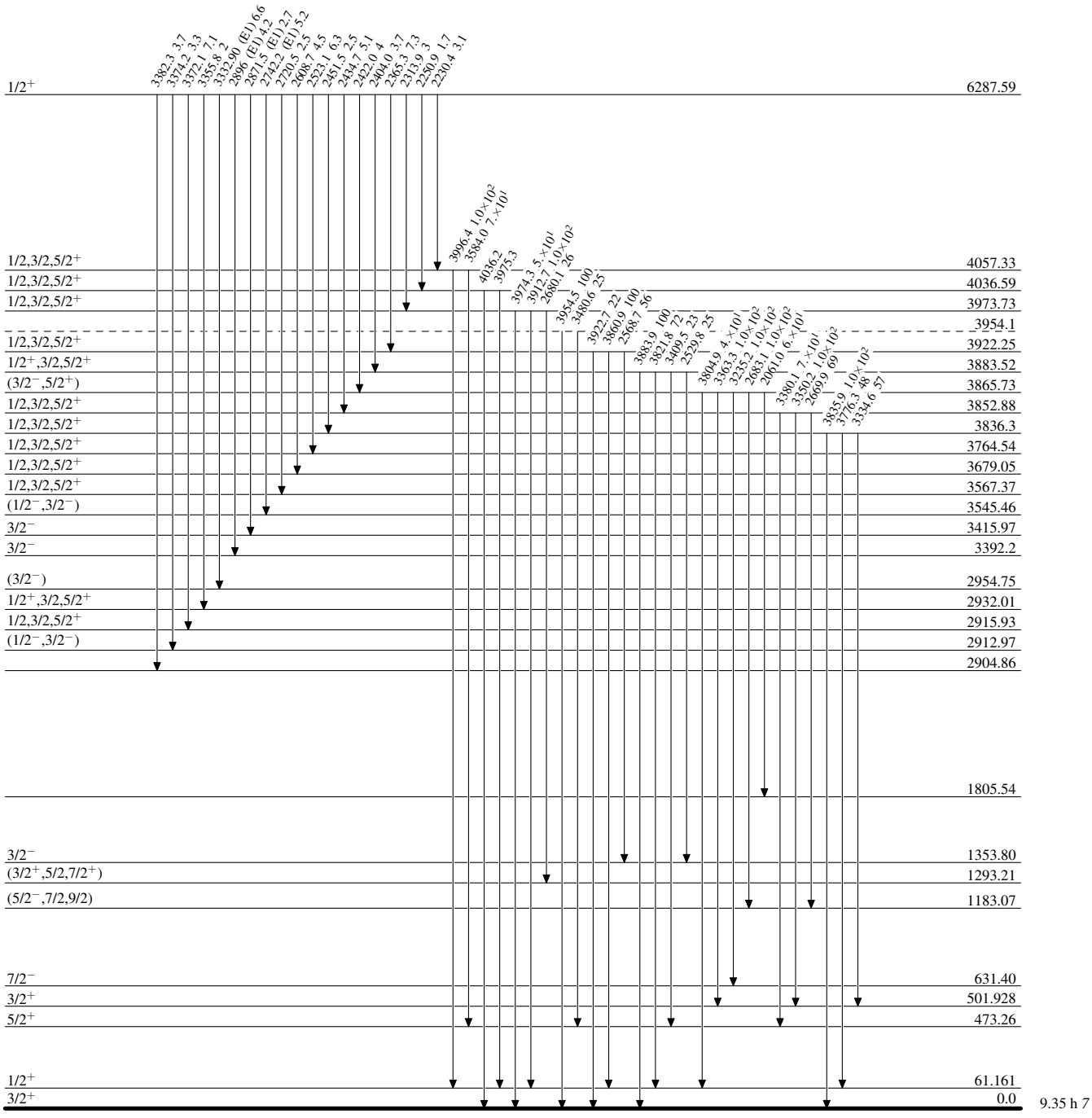


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

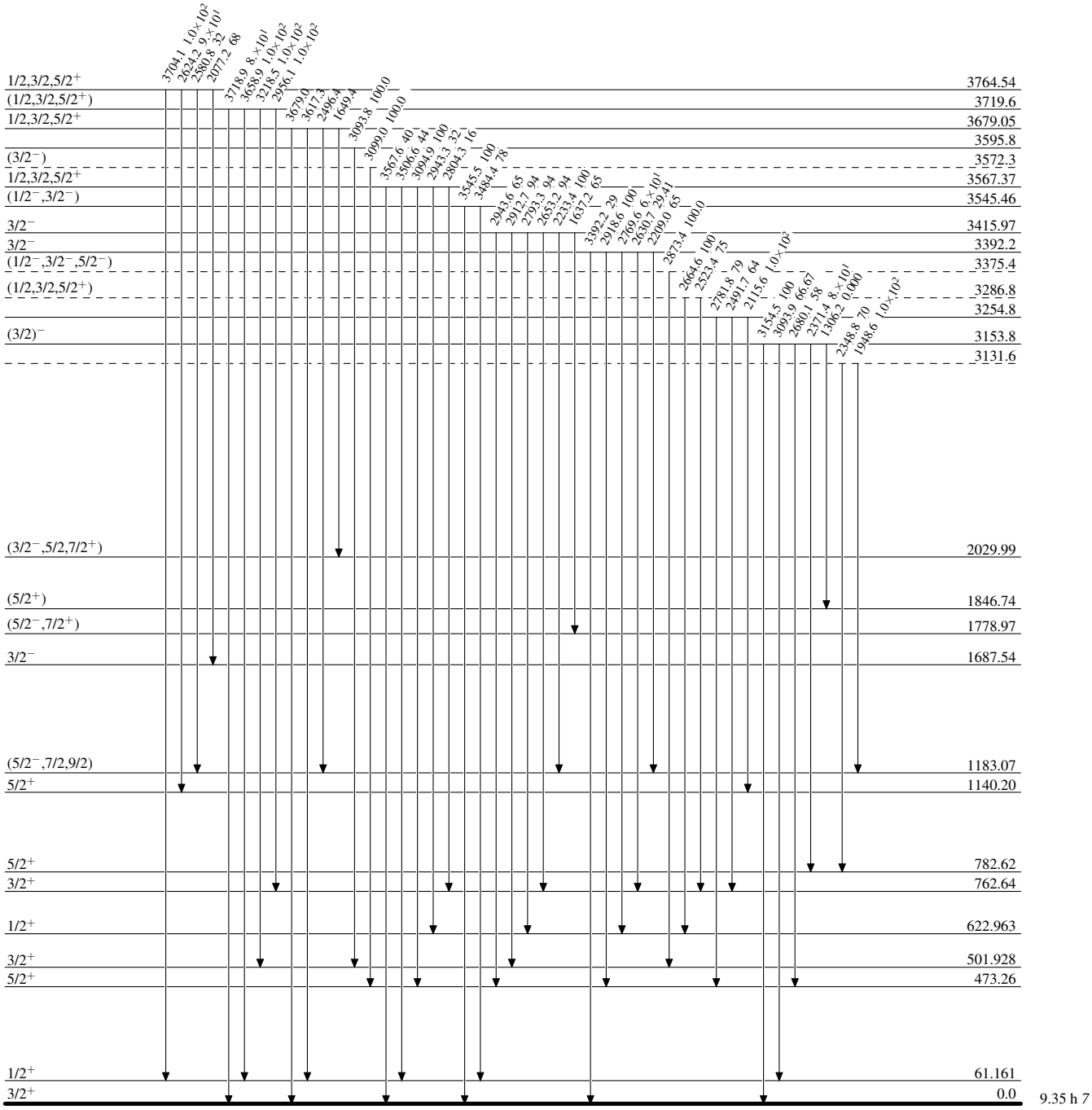


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

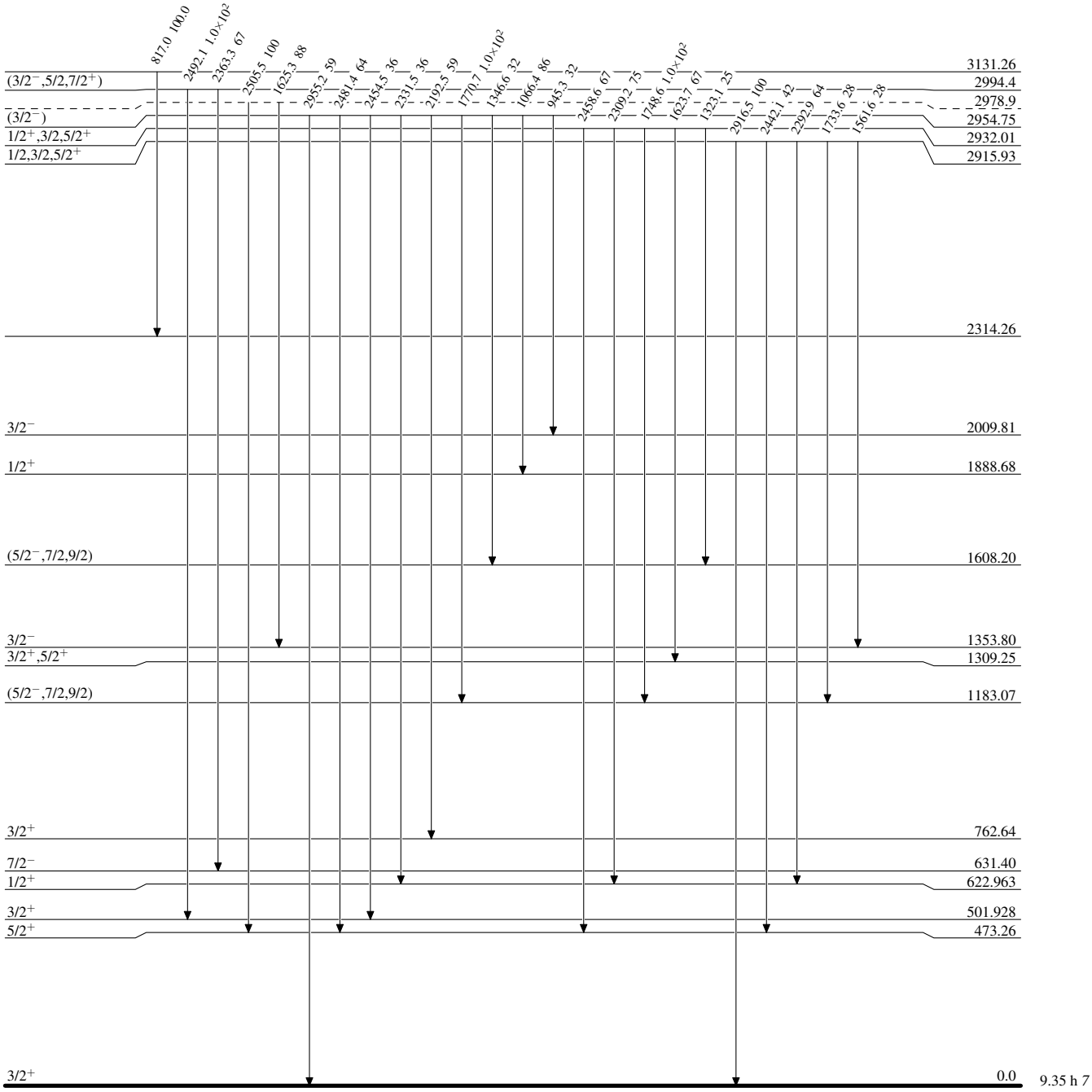


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

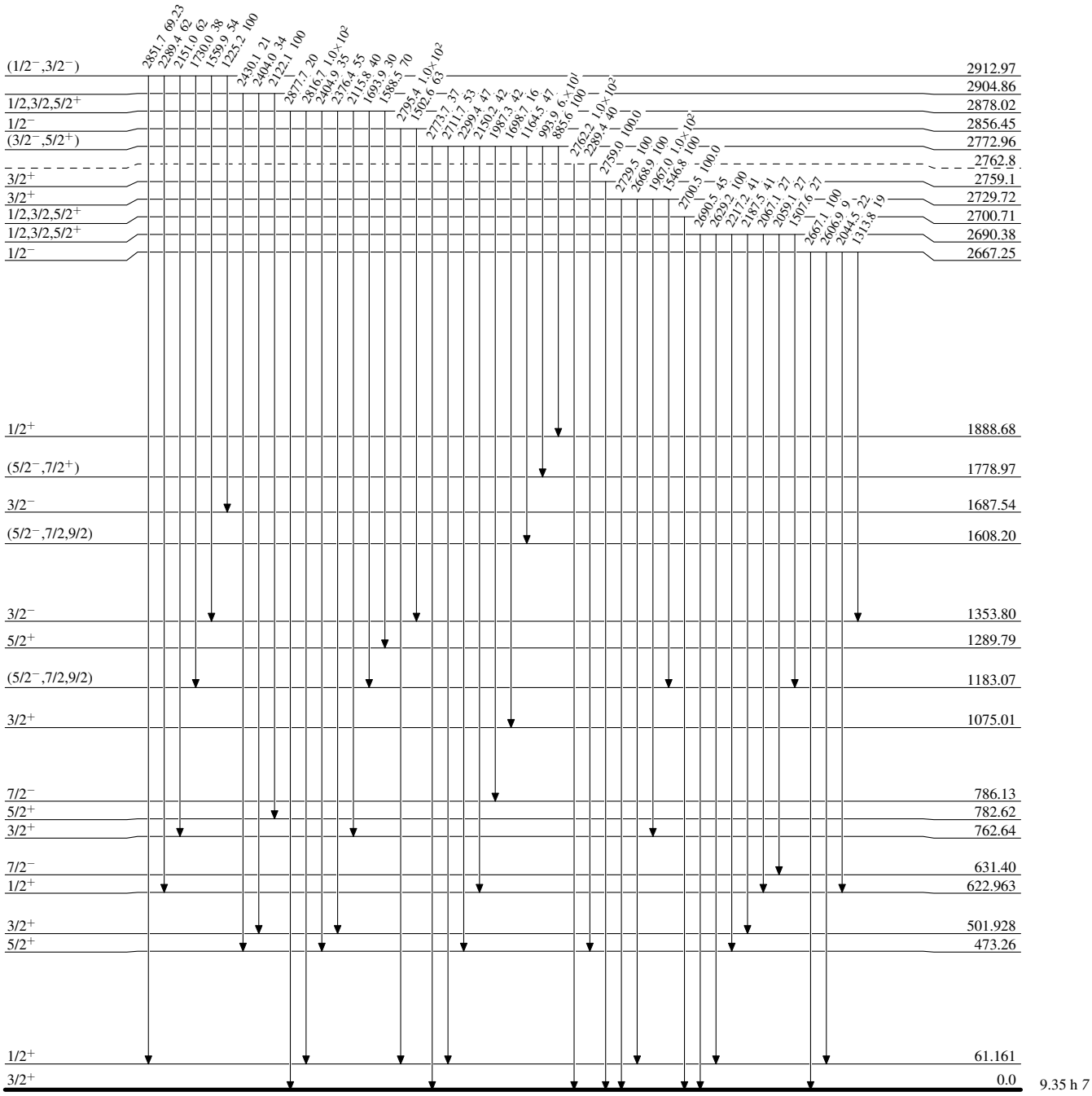


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

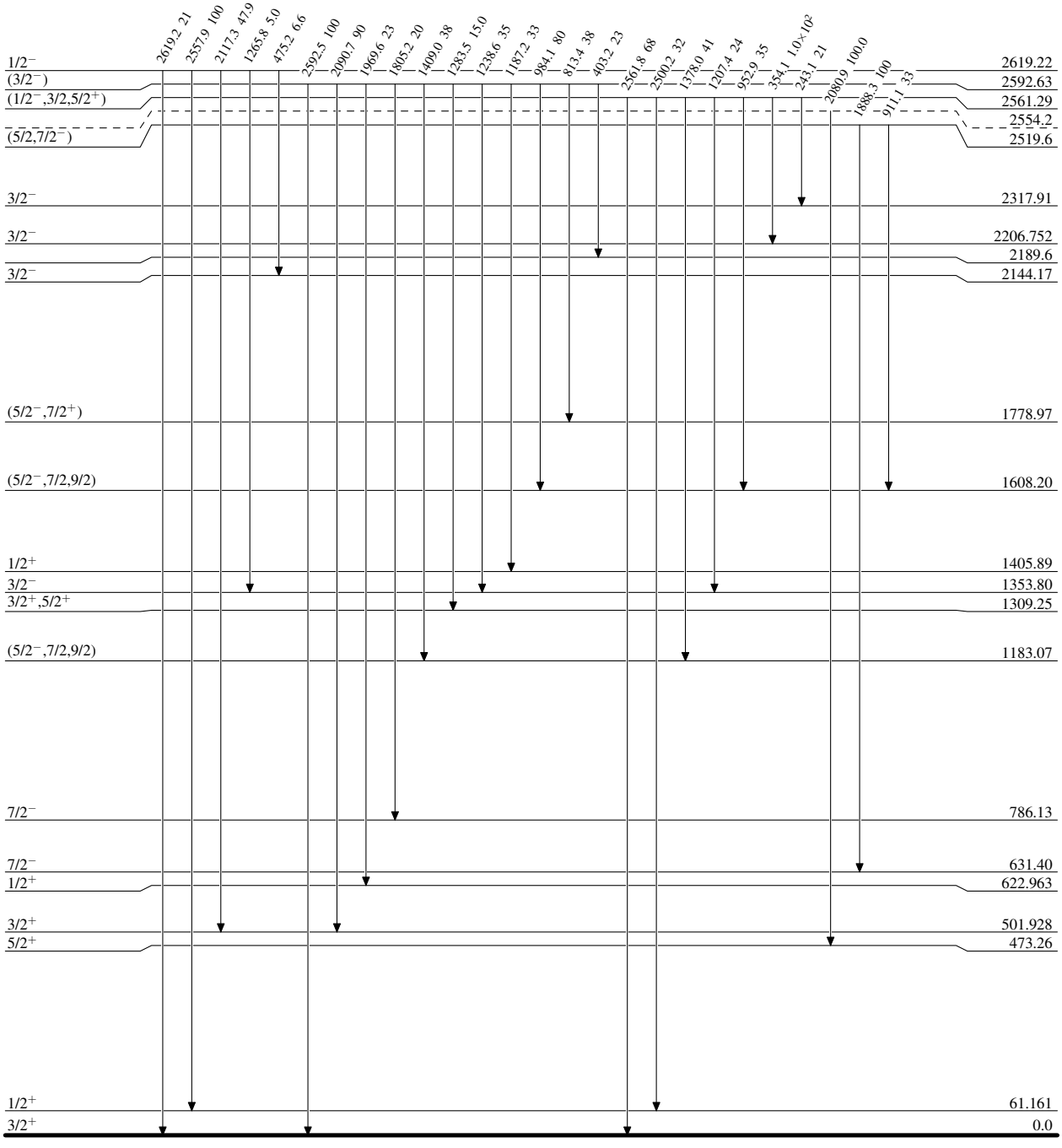


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

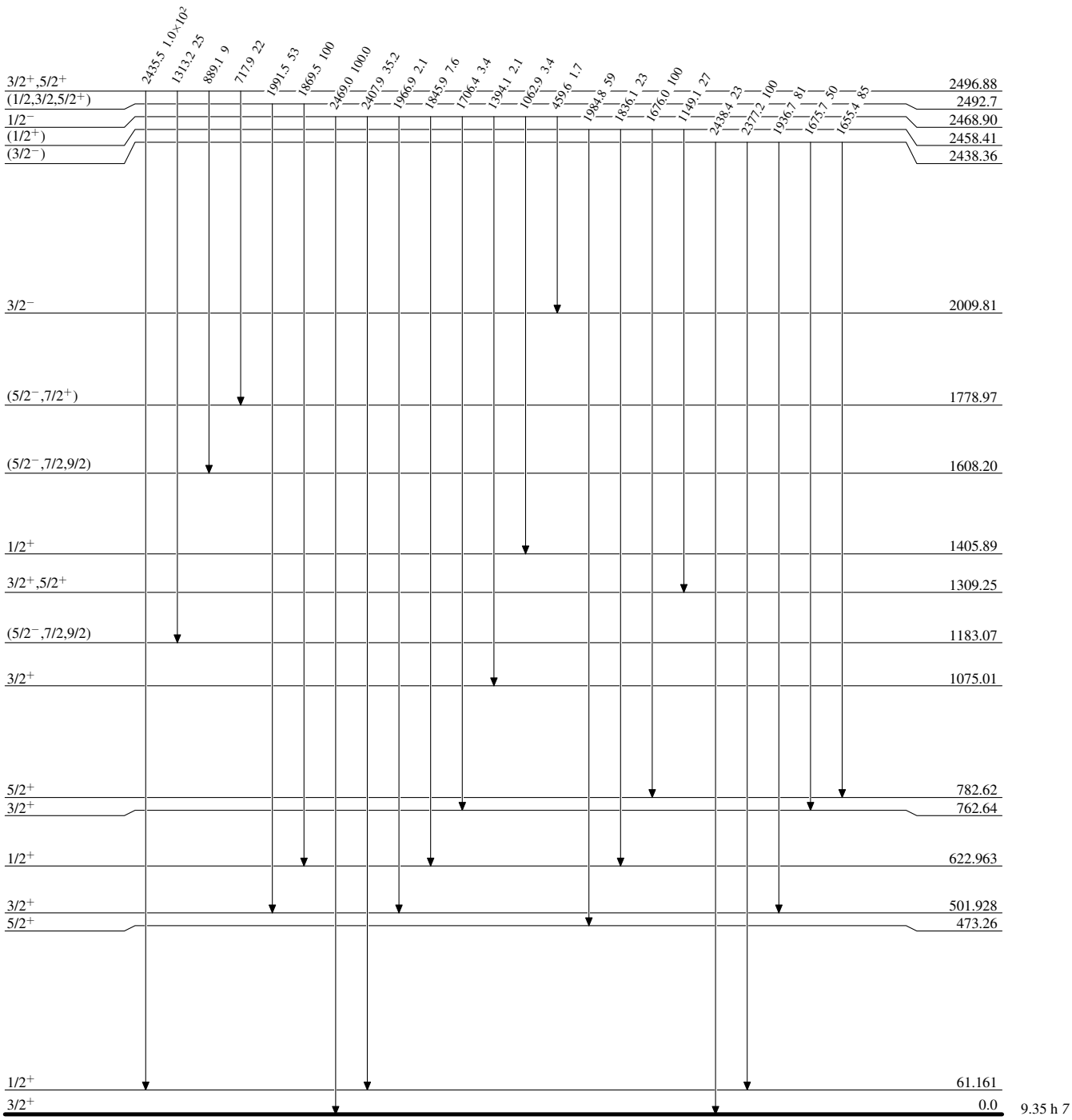


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

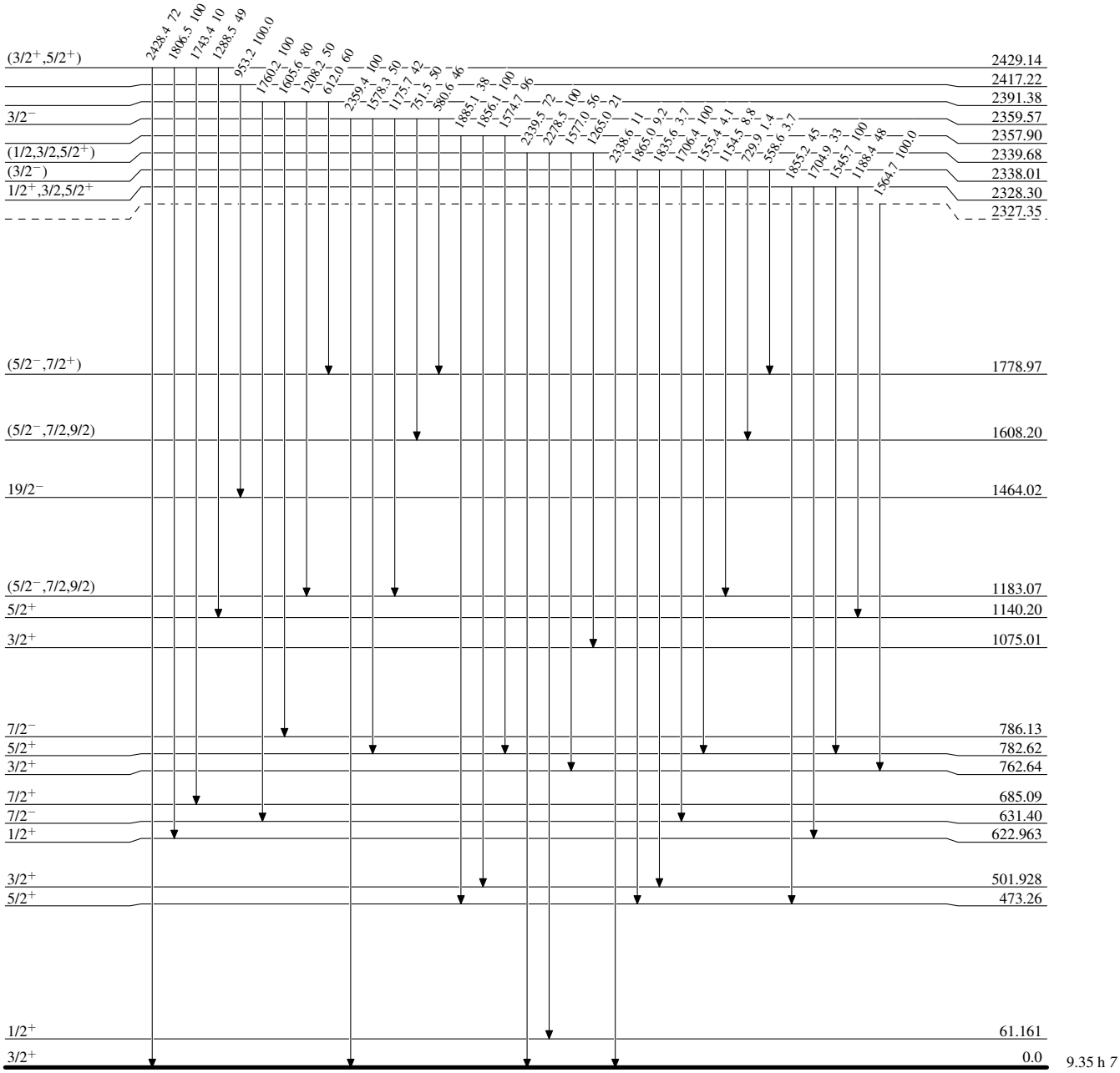


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

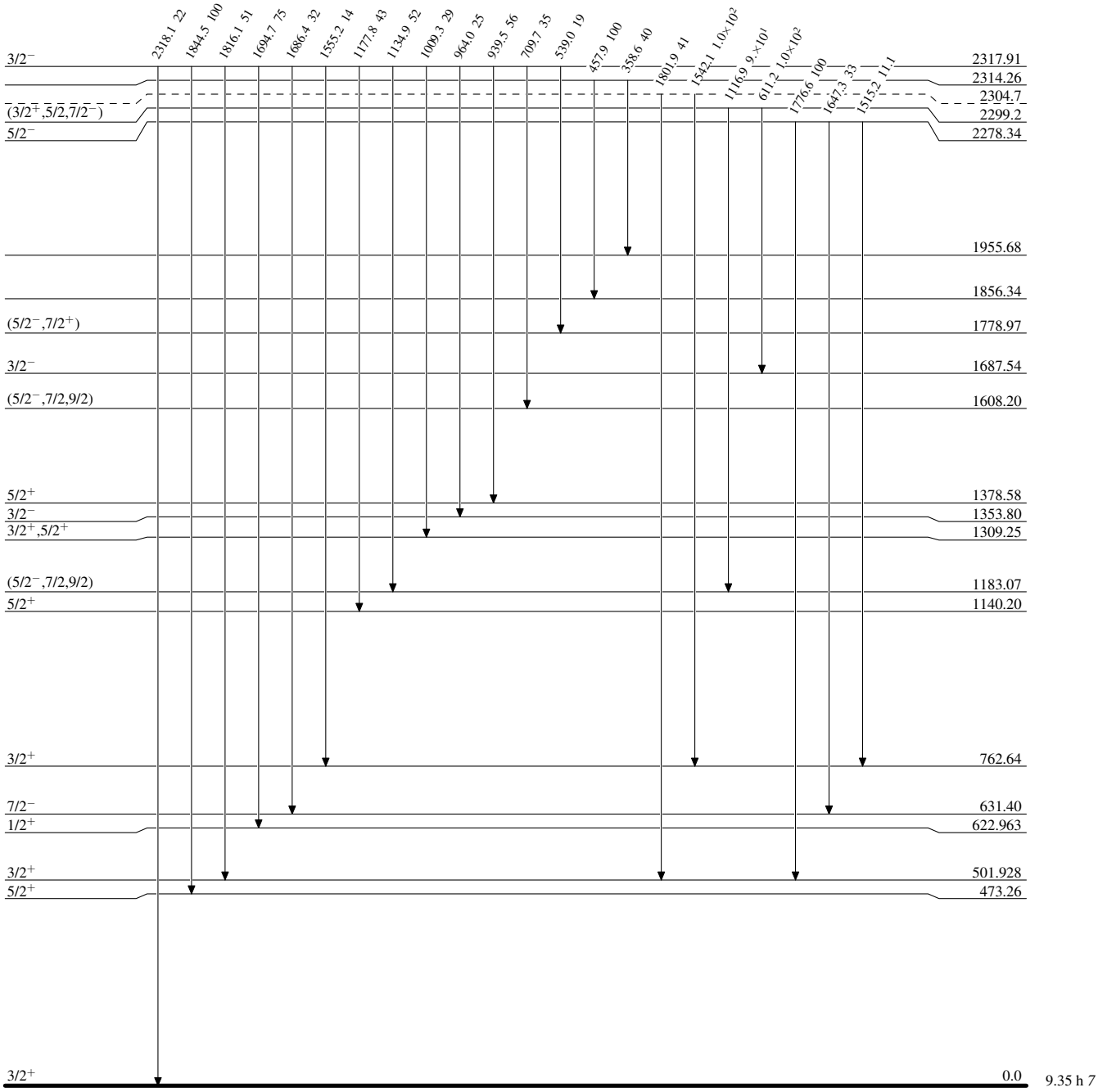


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

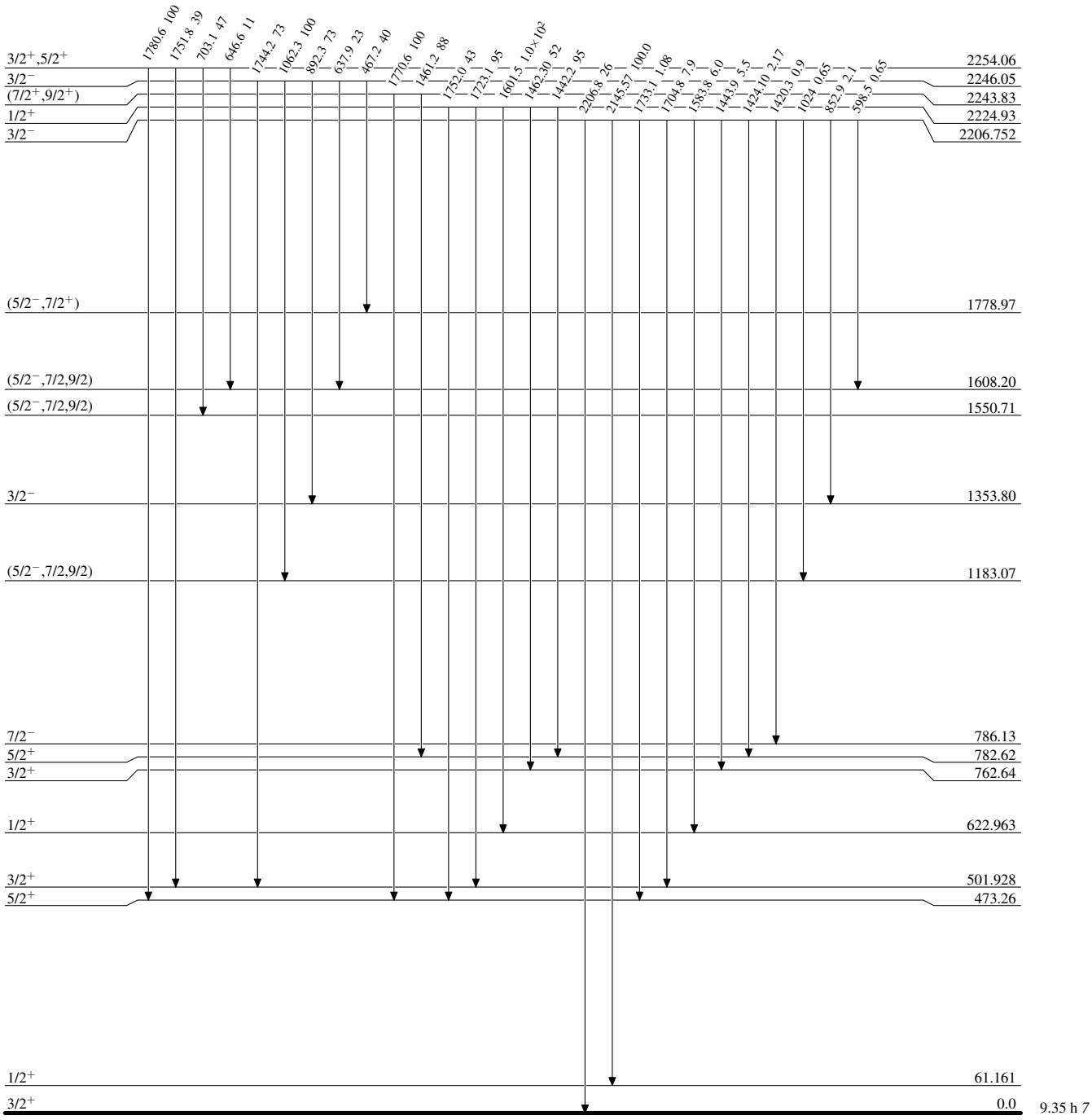


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

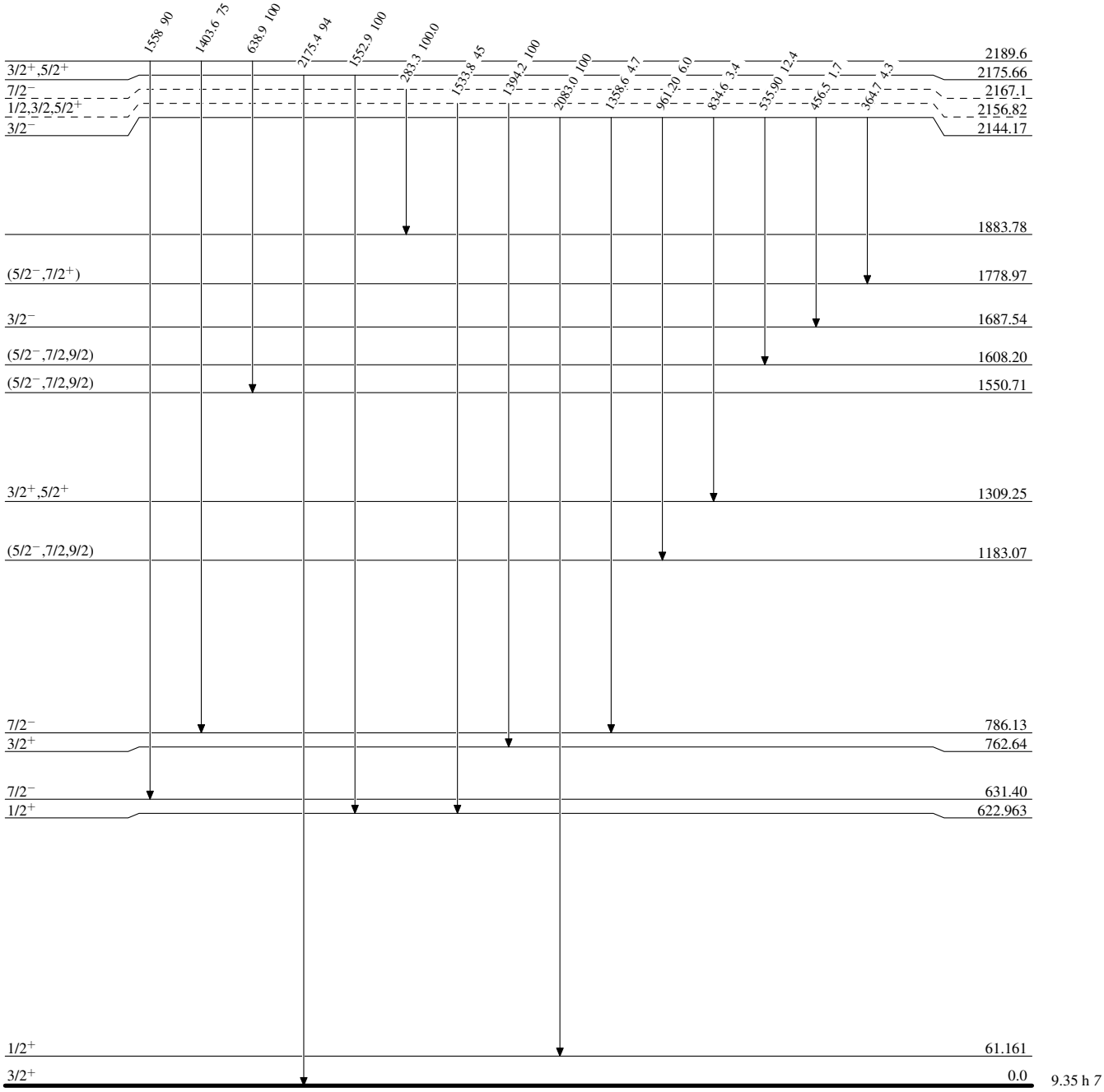


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

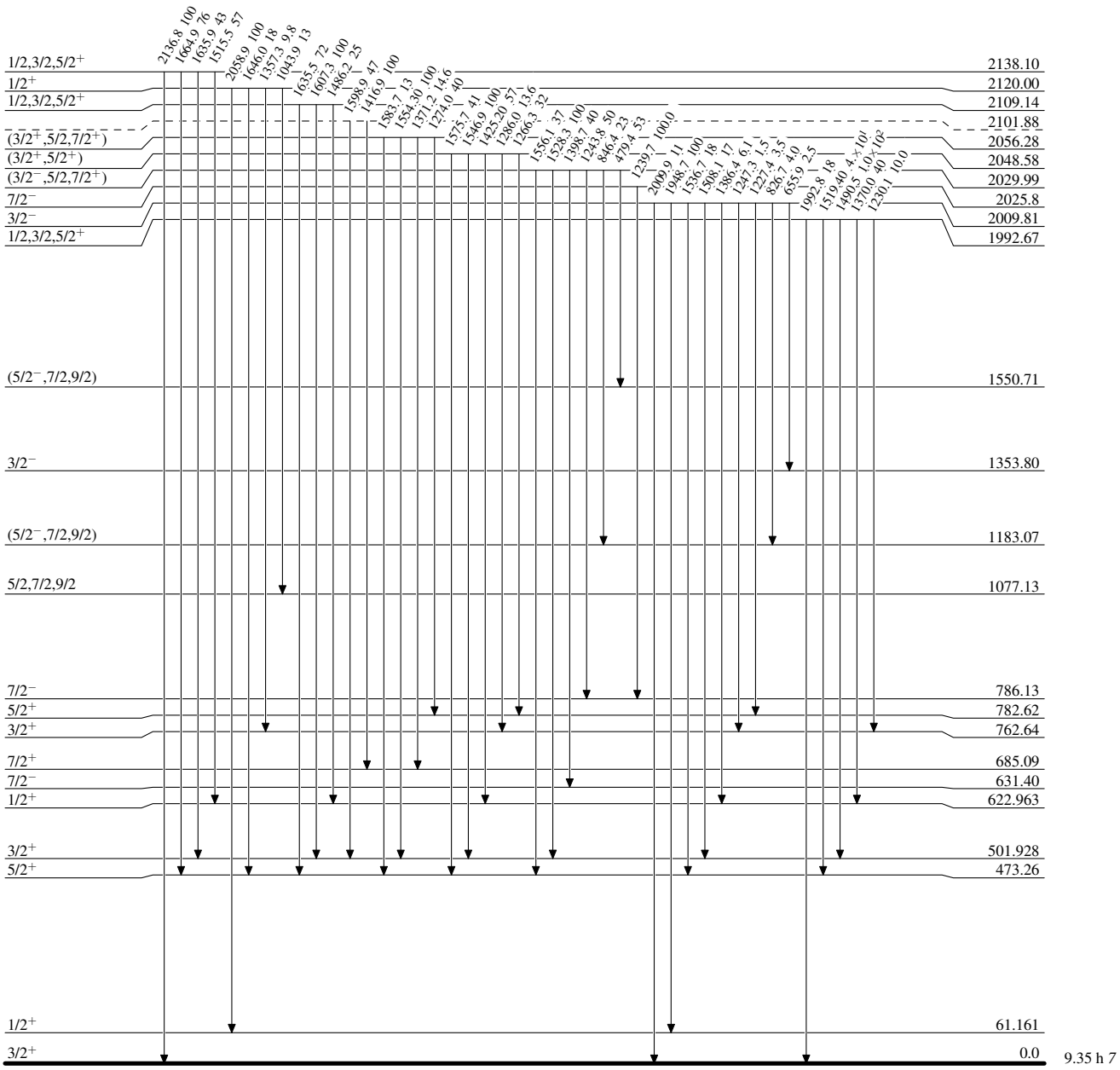


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

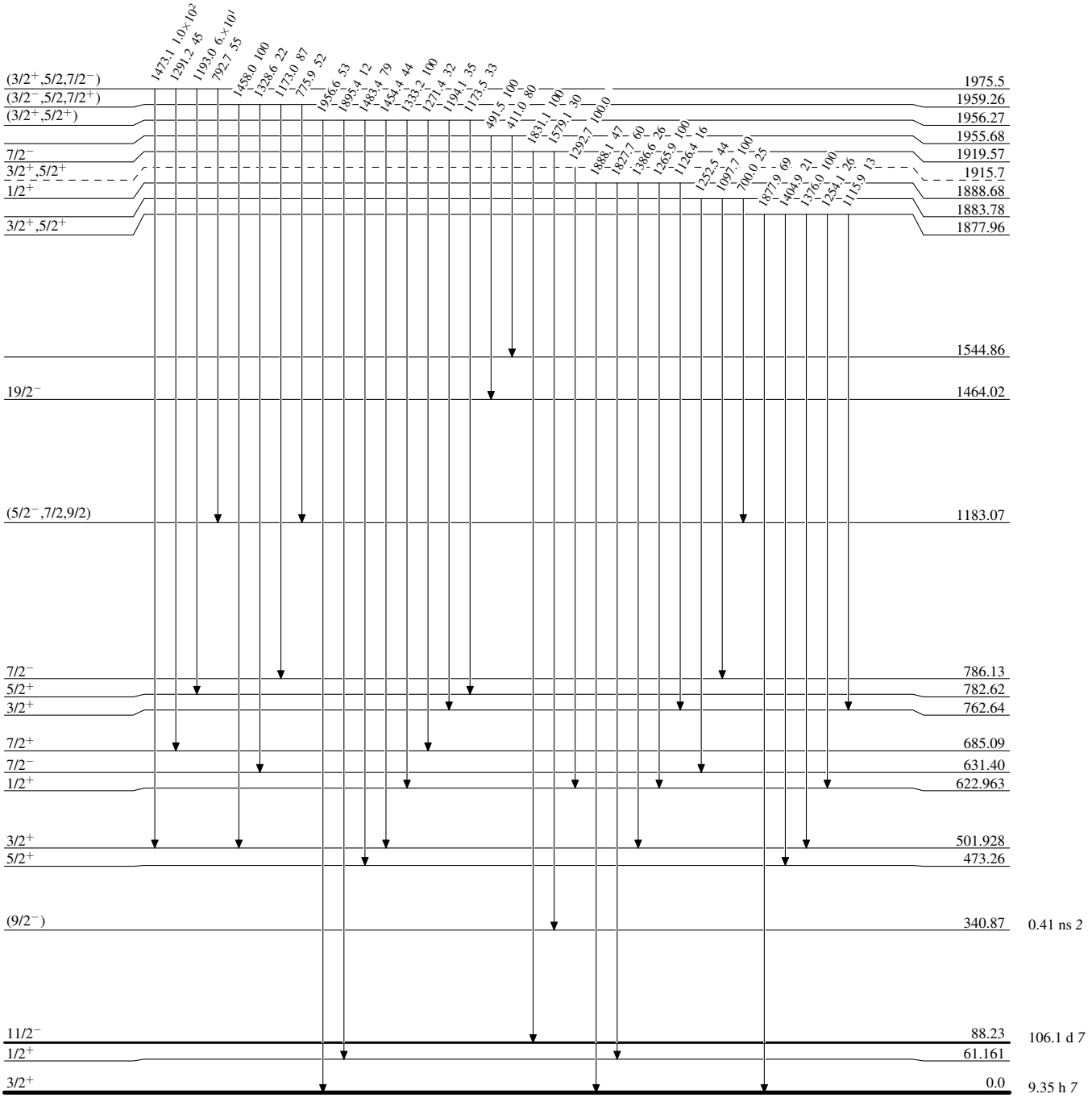


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

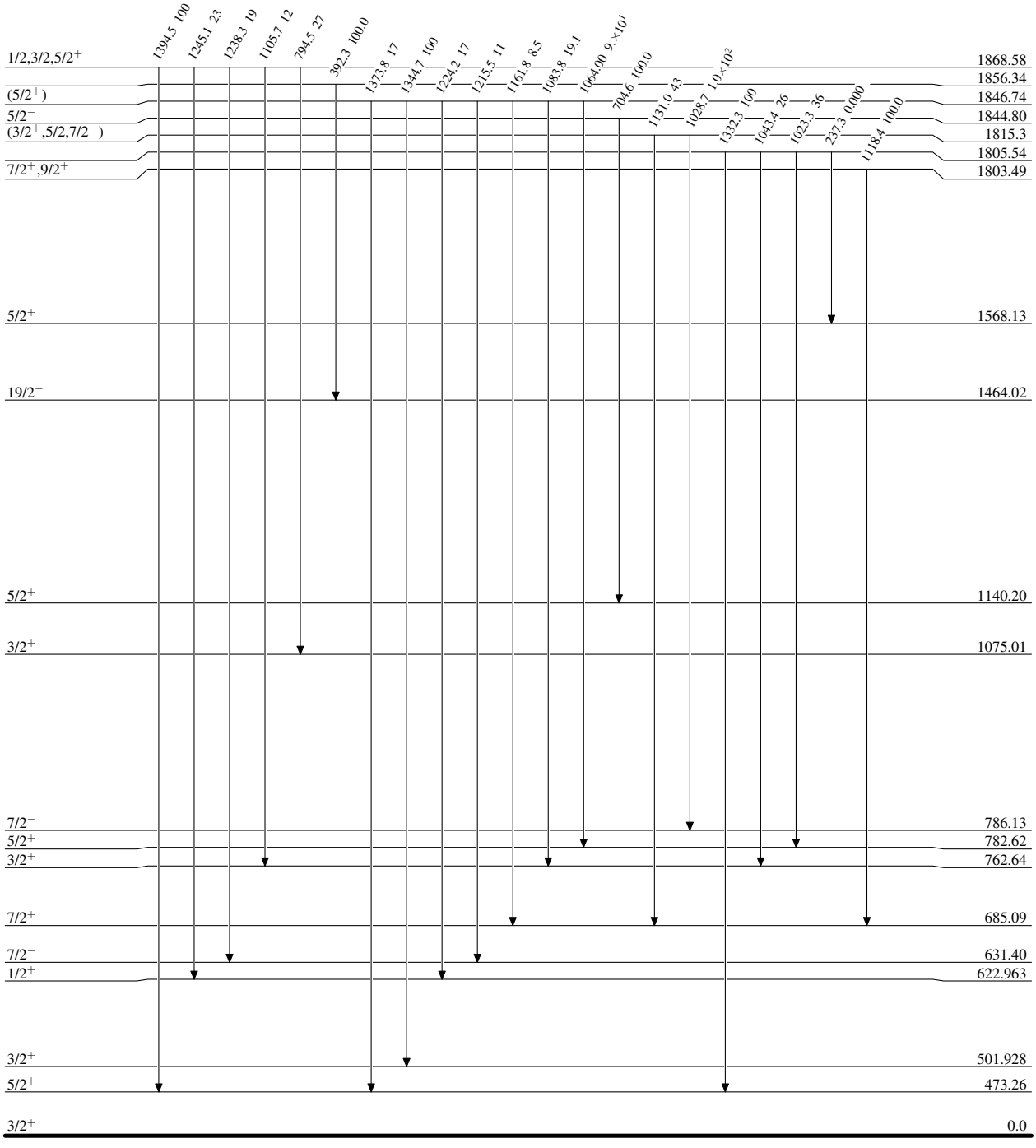


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

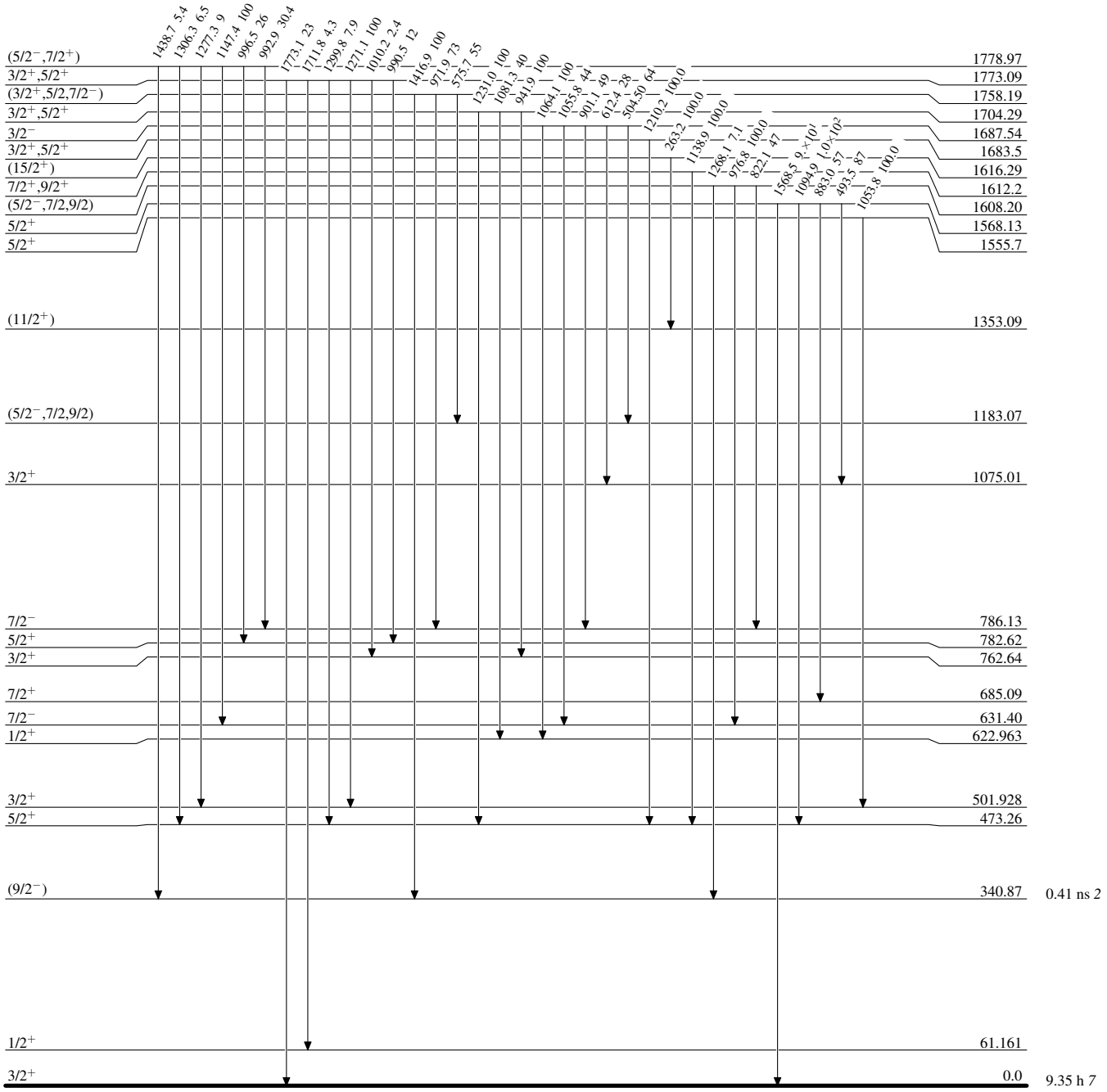


$^{127}_{52}Te_{75}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{127}_{52}Te_{75}$

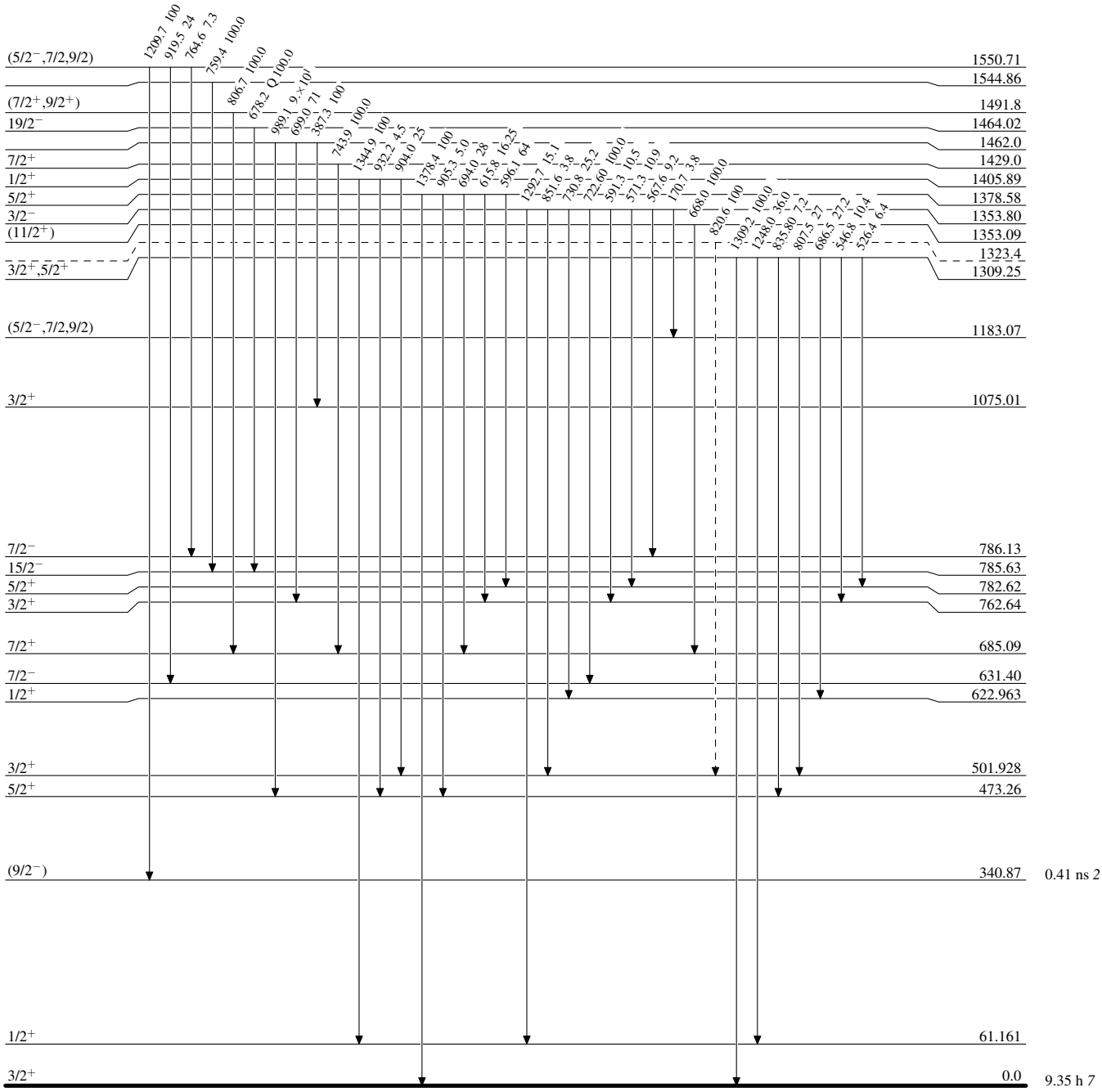
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{127}_{52}Te_{75}$

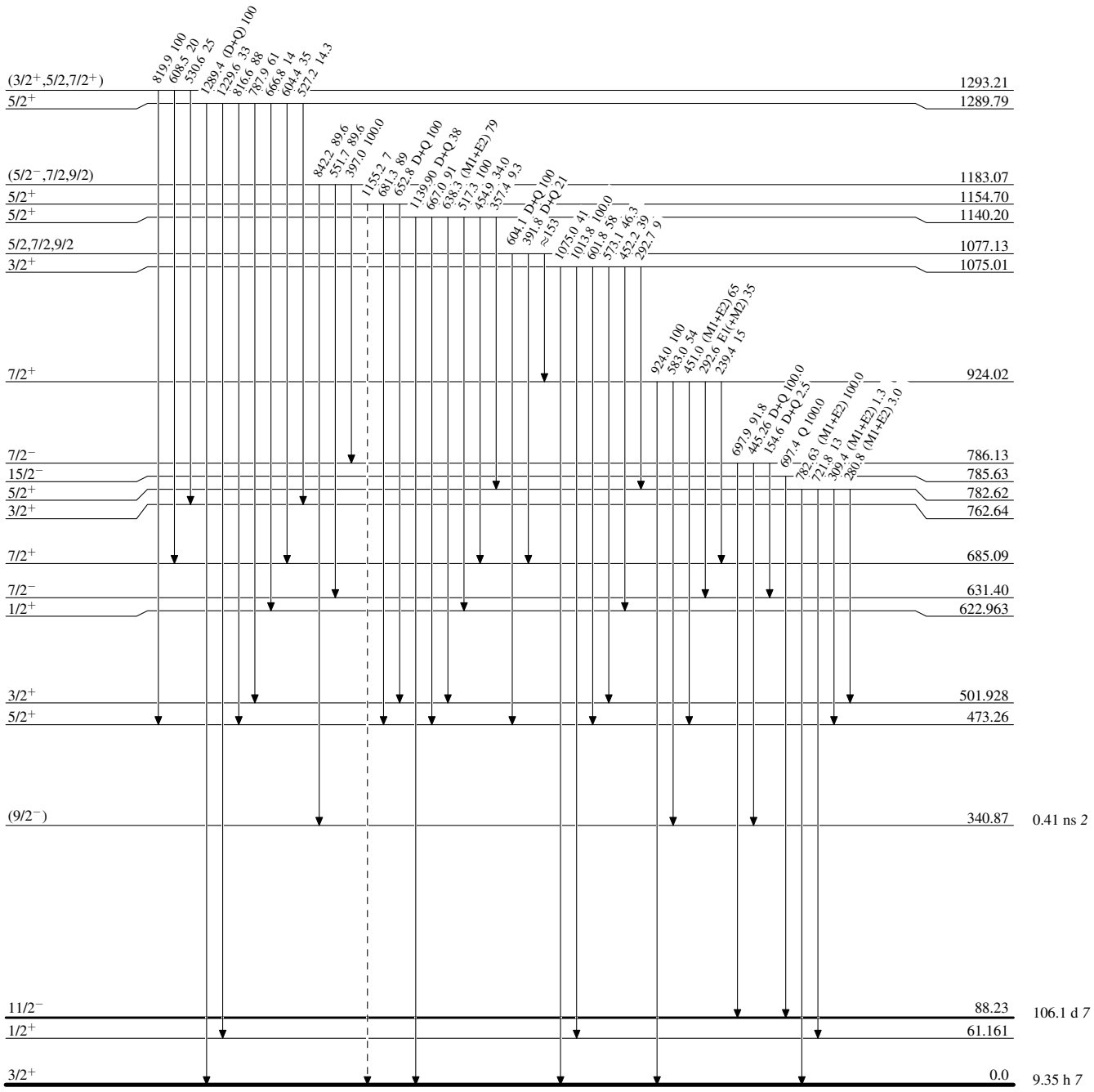
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

- - - - - - ► γ Decay (Uncertain)



$^{127}_{52}Te_{75}$

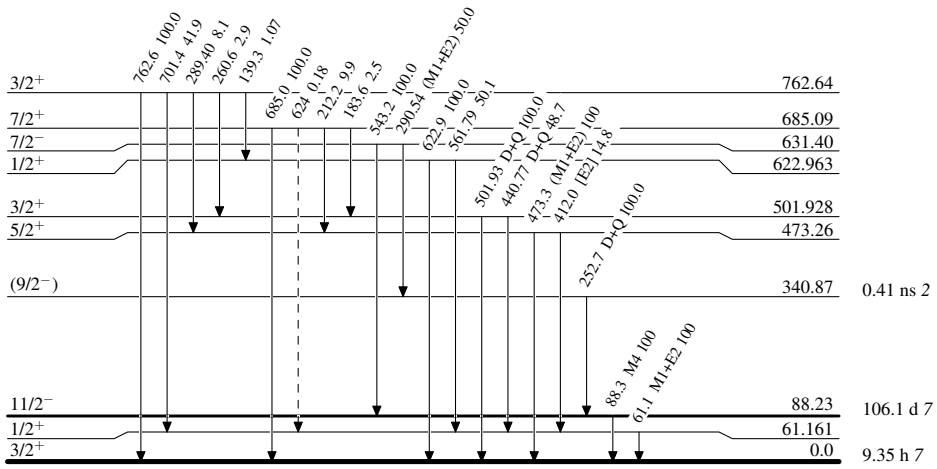
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{127}_{52}Te_{75}$