

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 174, 1 (2021)	15-Apr-2021

$Q(\beta^-) = -1228.3$; $S(n) = 6929.01$ 8; $S(p) = 8125.7$ 21; $Q(\alpha) = -1530.9$ 15 [2021Wa16](#)

$S(2n) = 16771$ 26, $S(2p) = 14552.3$ 14 ([2021Wa16](#)).

Other measurements:

$^{120}\text{Sn}(\alpha, n\gamma)$: [1981Io03](#), [1981Io05](#): measured $\gamma(\theta, H, t)$ of 331γ . Deduced g-factor and spin, $T_{1/2}$, magnetic moment for the $490, 7/2^+$ level.

Mass measurement: [2016Fi07](#): measured ^{123}Te and ^{123}Sb mass difference.

 ^{123}Te LevelsCross Reference (XREF) Flags

A	^{123}I ε decay (13.2230 h)	E	$^{122}\text{Te}(\text{d}, \text{p})$	I	$^{124}\text{Te}(\text{d}, \text{t})$
B	^{123}Te IT decay (119.2 d)	F	$^{123}\text{Sb}(\text{p}, n\gamma)$	J	$^{124}\text{Te}(^3\text{He}, \alpha)$
C	$^{116}\text{Cd}(^{11}\text{B}, \text{p}3n\gamma)$	G	$^{124}\text{Sn}(^3\text{He}, 4n\gamma), ^{123}\text{Sb}(\text{d}, 2n\gamma)$	K	$^{125}\text{Te}(\text{p}, \text{t})$
D	$^{122}\text{Te}(n, \gamma)$ E=th	H	$^{124}\text{Te}(\text{p}, \text{d})$	L	Coulomb excitation

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0	1/2 ⁺	>9.2×10 ¹⁶ y	AB DEFGHIJKL	%ε=100 $\mu = -0.7369478$ 8 Configuration=(ν 3s_{1/2}). J^π: spin=1/2 from hyperfine structure using optical spectroscopy (1949Ma47, 1950Fo08); L(d,p)=L(p,d)=L(d,t)=L($^3\text{He}, \alpha$)=0 from 0⁺. T_{1/2}: from 2003Al02, measured half-life T_{1/2}(ε K)>5×10¹⁹ y. Others: T_{1/2}>3.2×10¹⁶ y (2003Mu02), T_{1/2}(ε K)>2.4×10¹⁹ y (1996Al30), T_{1/2}(ε K)>2×10¹⁴ y (1945Ru03), T_{1/2}(ε K)>1×10¹⁵ y (1955He13), T_{1/2}(ε L)>5×10¹³ y (1954Se93), T_{1/2}(ε L)>1×10¹³ y (1955He13), T_{1/2}(ε K)=1.24×10¹³ y 10 (1962Wa15). μ: from 2014StZZ compilation, deduced from $\mu(^{125}\text{Te})/\mu(^{123}\text{Te})=1.205581816$ 48 from Nuclear Magnetic Resonance (NMR) measurement in 1977Bu29 and $\mu(^{125}\text{Te})=-0.8884509$ 10 reference to ^{23}Na in 2014StZZ. Others: $\mu(^{125}\text{Te})/\mu(^{123}\text{Te})=1.20560$ 7 (NMR, 1953We51), 1.208 60 (hyperfine structure, 1949Ma47); $\mu(^{125}\text{Te})=-0.7$ 2 and $\mu(^{123}\text{Te})=-0.6$ 2 (hyperfine structure, 1952Ro05). Additional information 1. Nuclear rms charge radius=4.7117 fm 35 (2013An02). $\mu=0.71$ 12 Configuration=(ν 2d_{3/2}) J^π: L(d,p)=L(p,d)=L(d,t)=L($^3\text{He}, \alpha$)=2 from 0⁺; 159.0γ M1+E2 to 1/2⁺. T_{1/2}: from ce-ce(t) in ^{123}Te IT decay, weighted average of 199 ps 10 (1968Ra02), 186 ps 20 (1963Sc12), and 190 ps 30 (1953Gr07). Other: 0.32 ns +26-14 from B(E2)$\uparrow$=0.018 5 in Coulomb excitation and adopted $\delta(E2/M1)=+0.079$ 11 for 158.99γ. μ: from integral perturbed angular correlation (IPAC) in 1970Ro31 and adopted T_{1/2}=196 ps 10, based on original value of 0.72 12 in 1970Ro31 using T_{1/2}=199 ps 10 from 1968Ra02. 0.72 12 in 2014StZZ compilation.
158.994 22	3/2 ⁺	196 ps 10	AB DEFGHIJKL	
247.45 [‡] 4	11/2 ⁻	119.2 d 3	ABCDEFGHIJK	%IT=100 $\mu = -0.927$ 8 Configuration=(ν 1h_{11/2}) J^π: L(d,p)=L(p,d)=L(d,t)=L($^3\text{He}, \alpha$)=5 from 0⁺; 88.5γ M4 to 3/2⁺.

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Adopted Levels, Gammas (continued) ^{123}Te Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF			Comments
						T _{1/2} : from ¹²³ Te IT decay, as unweighted average of 119.3 d 1 (1992Co11), 119.7 d 1 (1970EmZY) and 118.6 d 9 (1987Ja13). Others: 117 d 6 (1965An05), 104 d (1951Hi80), 121 d (1951Co34). μ: value from 1987Ni11 using nuclear magnetic resonance of oriented nuclei, sign from 1973Si26 with μ=−1.00 5 measured using nuclear orientation with gamma detection (1973Si26). Also in 2014StZZ compilation. J ^π : 136.8γ to 11/2 [−] , 148.4γ from (7/2 [−]), 968.9γ from (5/2) ⁺ . μ=+0.63 11 J ^π : spin=3/2 from γγ(θ) in ¹²³ I ε decay (1969Se09); L(p,t)=2 from 1/2 ⁺ ; 439.9γ M1+E2 to 1/2 ⁺ . T _{1/2} : deduced from B(E2)=0.21 3 in Coulomb excitation, adopted δ(E2/M1)=−2.1 1 and branching ratio 83.2% 5 for 439.7γ (1974Ro40). Other: 1.23 ps 21 from DSAM in 1973ErZS is discrepant. μ: from g-factor=0.34 6 by IMPAC using T _{1/2} =27 ps 3 deduced from their B(E2) in 1974Ro40, with correction by using adopted T _{1/2} =22 ps 4. Other: +0.66 28, from g-factor=+0.36 15 by transient field technique using T _{1/2} =27 ps in 1989Be22 and corrected by using adopted T _{1/2} =22 ps 4. Other: +0.51 9 in 2014StZZ compilation, as quoted from 1974Ro40.
384.31 5 440.00 4	(7/2 [−] ,9/2 ⁺) 3/2 ⁺	22 ps 4	A	DE DEFG	KL	
489.78 5	7/2 ⁺	30.7 ns 4	A	DEFGH	JK	μ=+0.787 14 XREF: h(504)J(498). J ^π : spin=7/2 from γ(θ) in 1981Io05; L(³ He,α)=4 from 0 ⁺ . T _{1/2} : from beam-γ(t)-coin in 1981Io05. μ: from TDPAD (1981Io03, 1981Io05). Also in 2014StZZ compilation. μ=+0.14 9 XREF: h(504)I(490). J ^π : spin=5/2 from particle-γ(θ) in Coulomb excitation (1989Be22) and γγ(θ) in ¹²³ I ε decay (1969Se09); L(d,t)=2 from 0 ⁺ , L(p,t)=2 from 1/2 ⁺ . T _{1/2} : deduced from B(E2)=0.27 5 from Coulomb excitation, adopted branching ratio 69.7% 11 for 505.3γ. μ: from g-factor=0.040 25 by IMPAC using T _{1/2} =18 ps 2 deduced from their B(E2) in 1974Ro40, with correction by using adopted T _{1/2} =13 ps 3. Other: +0.17 31, from g-factor=+0.05 9 by transient field technique using T _{1/2} =18 ps in 1989Be22 and corrected by using adopted T _{1/2} . Other: +0.10 6 in 2014StZZ compilation, as quoted from 1974Ro40.
505.35 4	5/2 ⁺	13 ps 3	A	DEFGHI	KL	J ^π : 285.3γ to 11/2 [−] and 812.1γ from 1345 level which has L(p,d)=1 (from 0 ⁺) together favor 7/2 [−] for 533 level and 3/2 [−] for 1345 level. J ^π : L(d,p)=0 from 0 ⁺ ; L(p,t)=0 from 1/2 ⁺ . XREF: H(702)J(712)k(683). J ^π : L(d,p)=L(p,d)=L(d,t)=2 from 0 ⁺ ; L(p,t)=2 from 1/2 ⁺ ; spin=3/2 from γγ(θ) in ¹²³ I ε decay (1969Se09). But spin=5/2 from γ(θ) anisotropy in 1979Sc13 in ¹²³ I ε decay is inconsistent.
532.68 4	(7/2 [−])		A	DEF	K	XREF: J(690)k(683). J ^π : L(³ He,α)=4 from 0 ⁺ ; 538.5γ to 3/2 ⁺ .
599.00 8 687.97 3	1/2 ⁺ 3/2 ⁺		A A	DEF DEFGHIJKL	H K	XREF: H(801). J ^π : L(d,p)=L(p,d)=2 from 0 ⁺ ; spin=3/2 from γ(θ) anisotropy in ¹²³ I ε decay (1979Sc13).
697.50 5	(7/2) ⁺		A	DEFG	Jk	T _{1/2} : from DSAM in (p,nγ) (1990Ja01). J ^π : 482.6γ from (3/2) [−] , 421.9γ to 3/2 ⁺ , 329.4γ to (7/2 [−]), 372.2γ to 7/2 ⁺ .
769.26 14 783.62 3	 3/2 ⁺	52 fs +33−21	A A	 DEF	F HIJK	
862.11 4	(5/2)			DE		

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Adopted Levels, Gammas (continued) ^{123}Te Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
870.94 22	(3/2 ⁺ , 5/2, 7/2 ⁺)		DE G	J ^π : 380.8γ to 7/2 ⁺ , 712.3γ to 3/2 ⁺ .
879.69 7	(7/2 ⁻)		DE K	J ^π : 632.3γ to 11/2 ⁻ , 464.7γ from (3/2) ⁻ .
886.9 [‡] 9	(15/2 ⁻)		C G	J ^π : 639.4γ to 11/2 ⁻ ; band assignment.
894.77 6	3/2 ⁺ , 5/2 ⁺	45 fs +24-14	A DEF HIJK	XREF: H(914)J(906). J ^π : L(p,d)=L(d,t)=L(³ He,α)=2 from 0 ⁺ , L(p,t)=2 from 1/2 ⁺ . T _{1/2} : from DSAM in (p,nγ) (1990Ja01).
919.7 9	(13/2 ⁻)		C G	J ^π : proposed in (¹¹ B,p3nγ) based on measured γγ(DCO) (1996B112); 672.3γ to 11/2 ⁻ .
920.3 7			E	E(level): this level in (d,p) should be a different level from 919.8 in (¹¹ B,p3nγ), since it would require L(d,p)=(7) for J ^π =(13/2 ⁻) if same, which is unlikely.
996.05 11	(5/2) ⁻		A D K	J ^π : L(p,t)=3 from 1/2 ⁺ ; 837.1γ and 556.1γ to 3/2 ⁺ .
1036.62 5	3/2 ⁺	43 fs +16-12	A DEF h K	XREF: h(1053). J ^π : L(p,t)=2 from 1/2 ⁺ ; primary 5892.7γ from 1/2 ⁺ in (n,γ) E=th; 437.6γ to 1/2 ⁺ cannot be E2 or M2 (ΔJ=2) based on RUL.
1068.23 6	3/2 ⁺ , 5/2 ⁺		A DE h JK	T _{1/2} : from DSAM in (p,nγ) (1990Ja01). XREF: h(1053)J(1059)K(?).
1081.7 7	7/2 ⁺ , 9/2 ⁺		E K	J ^π : L(³ He,α)=2 from 0 ⁺ . E(level): from (d,p). Other: 1080 5 from (p,t).
1097.76 8	(3/2 ⁻ , 5/2, 7/2 ⁺)		DE	J ^π : L(p,t)=4 from 1/2 ⁺ .
1138.5? 8			G	J ^π : 409.6γ to 3/2 ⁺ , 565.2γ to (7/2 ⁻).
1153 10			H	
1210 5	(5/2 ⁻ , 7/2 ⁻)		e K	E(level): from (p,t). Other: 1211.9 7 from (d,p) could also correspond to the 1212.5 level.
1212.51 9	(3/2 ⁻ , 5/2 ⁺)		De	J ^π : L(p,t)=(3) from 1/2 ⁺ .
1244.3 10	7/2 ⁺ , 9/2 ⁺		GHi J	J ^π : 613.0γ to 1/2 ⁺ , 828.4γ to (7/2 ⁻ , 9/2 ⁺). XREF: H(1239)i(1240)J(1232).
1254.0 4	(3/2 ⁻ to 9/2 ⁻)		DE i	J ^π : L(p,d)=L(³ He,α)=4 from 0 ⁺ . XREF: i(1240).
1268 10	(⁺)		H	J ^π : 259.1γ to (5/2) ⁻ , 867.8γ to (7/2 ⁻ , 9/2 ⁺).
1318.11 13	(1/2 ⁺ , 3/2 ⁺)		DE	J ^π : L(p,d)=(4)+(2) from 0 ⁺ .
1327.61 11			DE	J ^π : 1318.3γ to 1/2 ⁺ , primary 5610.6γ from 1/2 ⁺ in (n,γ) E=th.
1330 5	7/2 ⁺ , 9/2 ⁺		K	J ^π : L(p,t)=4 from 0 ⁺ .
1344.76 5	(3/2) ⁻		DE K	J ^π : L(d,p)=1 from 0 ⁺ ; 812.1γ-285.3γ cascade to 11/2 ⁻ favors 3/2 ⁻ .
1353.84 8	(5/2) ⁺		DE H	J ^π : L(p,d)=2 from 0 ⁺ ; 821.2γ and 474.1γ to (7/2 ⁻).
1414.15 9	(5/2 ⁺)		DE i k	XREF: i(1420)k(1410).
1418 10	(5/2 ⁻ , 7/2 ⁻)		E i	J ^π : L(p,t)=2 from 1/2 ⁺ for 1410 multiplet; 880.7γ to (7/2 ⁻). XREF: i(1420).
1422.82 11	(3/2 ⁺ , 5/2 ⁺)		DE i k	J ^π : L(d,p)=(3) from 0 ⁺ . XREF: i(1420)k(1410).
1427 10	7/2 ⁺ , 9/2 ⁺		iJ	J ^π : L(p,t)=2 from 1/2 ⁺ for 1410 multiplet. XREF: i(1420).
1446.35 20	(3/2) ⁺		DE H	J ^π : L(³ He,α)=4 from 0 ⁺ .
1474.5 6			E	J ^π : L(p,d)=2 from 0 ⁺ ; primary 5482.6γ from 1/2 ⁺ in (n,γ) E=th.
1483.3 67	1/2 ⁻ , 3/2 ⁻		E i	XREF: i(1500).
1483.9 5	(5/2 ⁻)		D i K	J ^π : L(d,p)=1 from 0 ⁺ . XREF: i(1500).
1496.3? 11			G i	J ^π : L(p,t)=3 from 1/2 ⁺ for 1480 multiplet; 1323.9γ to 3/2 ⁺ .
1515 10	3/2 ⁺ , 5/2 ⁺		Hi	XREF: i(1500).

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Adopted Levels, Gammas (continued) ^{123}Te Levels (continued)

E(level) [†]	J ^π	XREF	Comments
			J ^π : L(p,d) from 0 ⁺ .
1552.3 [#] 10	(17/2 ⁻)	C G	J ^π : 632.7γ to (13/2 ⁻); band assignment.
1558.35 18	(3/2) ⁺	DE K	E(level): other: 1558.3 6 from (d,p).
			J ^π : L(p,t)=2 from 1/2 ⁺ ; primary 5371γ from 1/2 ⁺ in (n,γ) E=th.
1584.7 4	(3/2 ⁻ , 5/2, 7/2 ⁺)	DE	E(level): other: 1585.1 6 from (d,p).
			J ^π : 706.0γ to (7/2 ⁻), 1144.9γ to 3/2 ⁺ .
1606 10	(⁺)	H	J ^π : L(p,d)=(0)+(2) from 0 ⁺ .
1610.2 [‡] 11	(19/2 ⁻)	C G	
1622.7 6		DE	XREF: D(1621.6?).
			E(level): from (d,p).
1654.6 8	7/2 ⁺ , 9/2 ⁺	E i j k	XREF: i(1660)J(1660)k(1675).
			J ^π : L(³ He,α)=4 from 0 ⁺ .
1672.0 3		DE i k	XREF: i(1660)k(1675).
1683.7 4	5/2 ⁻ , 7/2 ⁻	DE k	XREF: k(1675).
			E(level): other: 1682.4 9 from (d,p).
			J ^π : L(d,p)=3 from 0 ⁺ .
1693.64 20		DE	E(level): other: 1693.6 6 from (d,p).
1708.0 15	3/2 ⁺ , 5/2 ⁺	E GH K	E(level): other: 1707.0 8 from (d,p).
			J ^π : L(p,d)=2 from 0 ⁺ .
1732.5 3	(5/2 ⁺)	DE	E(level): other: 1733.1 6 from (d,p).
			J ^π : 1133.2γ to 1/2 ⁺ , 1034.3γ to (7/2 ⁺) ⁺ , 1200.7γ to (7/2 ⁻).
1759.61 6	(3/2) ⁻	DE	J ^π : L(d,p)=1 from 0 ⁺ ; 881.7γ to 7/2 ⁻ .
1788.4 6		E	
1795.8 7	3/2 ⁻ , 5/2 ⁺	DE	E(level): other: 1796.6 5 from (d,p).
			J ^π : γ to 7/2 ⁻ and 1/2 ⁺ .
1807.72 5	(3/2 ⁻)	D h	XREF: h(1829).
			J ^π : 1274.9γ and 927.3γ to (7/2 ⁻); primary 5121.6γ from 1/2 ⁺ in (n,γ) E=th.
1839.26 23	(1/2, 3/2)	DE hi j	XREF: h(1829)i(1850)j(1850).
			J ^π : primary 5088.7γ from 1/2 ⁺ in (n,γ) E=th.
1854.1 3	(5/2 ⁺)	DE i j	XREF: i(1850)j(1850).
			E(level): other: 1853.7 6 from (d,p).
			J ^π : L(³ He,α)=(2) from 0 ⁺ for possible 1850 doublet; 976.3γ o (7/2 ⁻).
1864.4 10	(3/2 ⁺ , 5/2 ⁺)	DE i j k	XREF: i(1850)j(1850).
			E(level): other: 1863.8 7 from (d,p).
			J ^π : L(³ He,α)=(2) from 0 ⁺ for possible 1850 doublet.
1887.38 16	(3/2) ⁻	DE	J ^π : L(d,p)=1 from 0 ⁺ ; 1354.5γ to (7/2 ⁻).
1903.36 15	(⁺)	DE H	J ^π : L(p,d)=(4)+(2) from 0 ⁺ .
1930.3 [#] 11	(21/2 ⁻)	C G	J ^π : 378γ to (17/2 ⁻); band assignment.
1946.1 10	1/2 ⁺	E K	J ^π : L(p,t)=0 from 0 ⁺ .
1958.4 3	(3/2 ⁺ , 5/2 ⁺)	DE	E(level): other: 1956.7 6 from (d,p).
			J ^π : 1359.6γ to 1/2 ⁺ , 1468.5γ to 7/2 ⁺ .
1978.05 9	(3/2) ⁻	DE K	XREF: K(1990).
			J ^π : L(d,p)=1 from 0 ⁺ ; 1472.0 γ to 5/2 ⁺ . But L(p,t)≥2 from 1/2 ⁺ seems inconsistent.
2011.1 6		E	
2020.74 14	1/2 ⁻ , 3/2 ⁻	DE i	XREF: i(2040).
			J ^π : L(d,p)=1 from 0 ⁺ .
2051.1 5	5/2 ⁻ , 7/2 ⁻	E i	XREF: i(2040).
			J ^π : L(d,p)=3 from 0 ⁺ .
2054 15	7/2 ⁺ , 9/2 ⁺	i j k	XREF: i(2040).
			E(level): weighted average of 2066 25 from (³ He,α) and 2050 15 from (p,t). This level could correspond to the 2065.6 level in (d,p).
			J ^π : L(³ He,α)=L(p,t)=4 from 0 ⁺ .
2065.6 7		E	E(level): from (d,p). See comment for 2054 level.
2076 10	3/2 ⁺ , 5/2 ⁺	H	J ^π : L(p,d)=2 from 0 ⁺ .

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Adopted Levels, Gammas (continued) ^{123}Te Levels (continued)

E(level) [†]	J ^π	XREF	Comments
2083.1 9		E	
2092.57 11	(1/2,3/2)	DE	J ^π : primary 4836.8γ from 1/2 ⁺ in (n,γ) E=th.
2118.4 5	(⁺)	E K	XREF: K(2115).
			J ^π : L(p,t)=(0)+(4) from 1/2 ⁺ .
2129.80 12	(3/2) ⁻	DE	E(level): other: 2130.1 5 from (d,p).
			J ^π : L(d,p)=1 from 0 ⁺ ; 1597.3γ to (7/2 ⁻), 1624.4γ to 5/2 ⁺ .
2143.7 5		E	
2151.3 6		E k	XREF: k(2160).
2158.06 5	1/2 ⁻ ,3/2 ⁻	DE k	XREF: k(2160).
			J ^π : L(d,p)=1 from 0 ⁺ .
2163 10	3/2 ⁺ ,5/2 ⁺	H k	XREF: k(2160).
			J ^π : L(p,d)=2 from 0 ⁺ .
2197.30 20	(1/2 ⁺ ,3/2)	DE	J ^π : primary 2197.3γ from 1/2 ⁺ in (n,γ) E=th; 1690.8γ to 5/2 ⁺ .
2201.1 6	(3/2 ⁺ ,5/2 ⁺)	E	J ^π : L(d,p)=(2) from 0 ⁺ .
2264.0 11	5/2 ⁻ ,7/2 ⁻	E K	E(level): from (d,p). Other: 2265 15 from (p,t).
			J ^π : L(p,t)=3 from 1/2 ⁺ .
2285.0 10	(⁺)	E H	XREF: H(2275).
			J ^π : L(p,d)=(4)+(2) from 0 ⁺ .
2296.7 17	7/2 ⁺ ,9/2 ⁺	E K	XREF: K(2290).
			J ^π : L(p,t)=4 from 1/2 ⁺ .
2332 10	7/2 ⁺ ,9/2 ⁺	H J	XREF: J(2340).
			J ^π : L(p,d)=L(³ He,α)=4 from 0 ⁺ .
2348.2 8		E	
2357.9 13		C	E(level): This level is proposed to be a different level from the 2358, (23/2 ⁻) level by 1996BI12.
2358.3 [‡] 12	(23/2 ⁻)	C G	J ^π : band assignment.
2369.1 7	(5/2 ⁻ ,7/2 ⁻)	E k	XREF: k(2370).
			J ^π : L(p,t)=3 for possible 2370 doublet.
2376.6 7	(5/2 ⁻ ,7/2 ⁻)	E k	XREF: k(2370).
			J ^π : L(p,t)=3 for possible 2370 doublet.
2398.7 8		E	
2413.6 10	5/2 ⁻ ,7/2 ⁻	E H	J ^π : L(d,p)=3 from 0 ⁺ . But L(p,d)=(4)+(2) from 0 ⁺ is inconsistent.
2442.6 10		E	
2457.4 7		E	
2464.9 7	(⁺)	E H	XREF: H(2469).
			J ^π : L(p,d)=(4)+(2) from 0 ⁺ .
2478.7 8		E	
2497.7 6		E	
2514.9 6		E	
2525.5 6		E	
2533.3 6		E	
2540.7 6		E	
2551.6 7	1/2 ⁻ ,3/2 ⁻	E	J ^π : L(d,p)=1 from 0 ⁺ .
2555.8 6		E	
2565.2 6		E	
2572.1 6	(⁺)	E H	XREF: H(2576).
			J ^π : L(p,d)=(2)+(4) from 0 ⁺ .
2604.3 6		E h	XREF: h(2615).
2614 6		E h	XREF: h(2615).
2621.89 20	(1/2 ⁺ ,3/2)	DE h	XREF: h(2615).
			J ^π : primary 4307.7γ from 1/2 ⁺ in (n,γ) E=th; 2115.2γ to 5/2 ⁺ .
2630.3 6		E	
2638.1 6		E	
2644.7 7	(1/2,3/2)	DE	E(level): other: 2643.4 7 from (d,p).
			J ^π : primary 4285.1γ from 1/2 ⁺ in (n,γ) E=th.
2657.0 6		E	

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Adopted Levels, Gammas (continued) ^{123}Te Levels (continued)

E(level) [†]	J ^π	XREF	Comments
2670.2 6	(7/2 ⁺ ,9/2 ⁺)	E j	XREF: j(2670). J ^π : L(³ He,α)=4 for possible 2670 25 multiplet.
2676.2 6	(7/2 ⁺ ,9/2 ⁺)	E j	XREF: j(2670). J ^π : L(³ He,α)=4 for possible 2670 25 multiplet.
2684.2 12	(21/2 ⁻ ,23/2 ⁻)	C	J ^π : 1074γ to (19/2 ⁻), 355γ from (25/2 ⁻).
2686.8 5	1/2 ⁻ ,3/2 ⁻	DE	E(level): from (n,γ) E=th. Other: 2687.0 6 from (d,p). J ^π : L(d,p)=1 from 0 ⁺ .
2695 1	(⁺)	E H	XREF: H(2691). J ^π : L(p,d)=(4)+(2) from 0 ⁺ .
2713.0 6		E	
2726.23 16	(1/2,3/2)	DE	J ^π : primary 4203.0γ from 1/2 ⁺ in (n,γ) E=th.
2735.3 7		E	
2741.7 7		E	
2751 2	(5/2 ⁻ ,7/2 ⁻)	E	J ^π : L(d,p)=(3) from 0 ⁺ .
2773.4 6	1/2 ⁻ ,3/2 ⁻	E	J ^π : L(d,p)=1 from 0 ⁺ .
2782.0 7		E	
2794.0 7		E	
2807.0 6		E	
2811.9 3	1/2 ⁻ ,3/2 ⁻	DE	E(level): other: 2812.3 7 from (d,p). J ^π : L(d,p)=1 from 0 ⁺ .
2812.6 @ 13	(23/2)	C G	J ^π : 881.8γ D, ΔJ=1 to (21/2 ⁻).
2834.0 7		E	
2848.6 7		E	
2857.4 6		E	
2864.0 7		E	
2869.5 7		E	
2875.2 7		E	
2880.8 9		E	
2887.3 9		E	
2894.6 7		E	
2906.1 8		E	
2915.8 7		E	
2922.5 9		E	
2937.2 5	1/2 ⁻ ,3/2 ⁻	DE	J ^π : L(d,p)=1 from 0 ⁺ .
2946.8 3	(1/2,3/2)	DE	J ^π : primary 3982.4γ from 1/2 ⁺ in (n,γ) E=th.
2950 15	5/2 ⁻ ,7/2 ⁻	K	J ^π : L(p,t)=3 from 1/2 ⁺ .
2957.3 8	(1/2,3/2)	DE	XREF: E(2963). E(level): from (n,γ) E=th. J ^π : primary 3972γ from 1/2 ⁺ in (n,γ) E=th.
2967.9 10		E	
2983.8 10		E	
3002.5 12		E	
3007.7 16	1/2 ⁻ ,3/2 ⁻	E	J ^π : L(d,p)=1 from 0 ⁺ .
3033 10		E	
3039.0 # 13	(25/2 ⁻)	C	J ^π : 1109γ to (21/2 ⁻); band assignment.
3055 10		E	
3079 10		E	
3106 10		E	
3151 10		E	
3181 10		E	
3197 10	1/2 ⁻ ,3/2 ⁻	E	J ^π : L(d,p)=1 from 0 ⁺ .
3321 10		E	
3337 10		E	
3375 10		E	
3376.7 ‡ 14	(27/2 ⁻)	C	J ^π : 1018γ to (23/2 ⁻); band assignment.
3401 10	1/2 ⁻ ,3/2 ⁻	E	J ^π : L(d,p)=1 from 0 ⁺ .

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{123}Te Levels (continued)

E(level) [†]	J ^π	XREF	Comments
3439 10		E	
3469 10		E	
3492 10		E	
3513 10		E	
3551 20	1/2 ⁻ , 3/2 ⁻	E	J ^π : L(d,p)=1 from 0 ⁺ .
3551.6@ 15	(27/2)	C	J ^π : 739γ to (23/2); band assignment.
3625 10		E	
3744 10		E	
3766 10		E	
3787 10		E	
3813.1 14		C	
3822 10		E	
3849 10		E	
3866 10		E	
3912 10		E	
3935 10		E	
3975 10		E	
4014 10		E	
4040 10		E	
4055 10		E	
4075 10		E	
4113.0# 14	(29/2 ⁻)	C	J ^π : 1074γ to (25/2 ⁻); band assignment.
4134 10		E	
4173 10		E	
4200 10		E	
4201.7@ 15	(31/2)	C	J ^π : 650γ to (27/2); band assignment.
4253.8‡ 15	(31/2 ⁻)	C	J ^π : 650γ to (27/2 ⁻); band assignment.
4271 10		E	
4302 10		E	
4317 10		E	
4347 10		E	
4358.0? 16		C	
4380 10		E	
4411 10		E	
4441 10		E	
4476 10		E	
4500 10		E	
4538 10		E	
4570 10		E	
4606 10		E	
4627.8# 15	(33/2 ⁻)	C	J ^π : 515γ to (29/2 ⁻); band assignment.
4655 10		E	
4669 10		E	
4685 10		E	
4715 10		E	
4748 10		E	
4748.7@ 18	(33/2)	C	J ^π : 547γ D, ΔJ=1 to (31/2).
4776 10		E	
4789 10		E	
4854 10		E	
4876 10		E	
4966 10		E	
5009.8‡ 16	(35/2 ⁻)	C	J ^π : 756γ to (31/2 ⁻); band assignment.
5015 10		E	
5034.7@ 21		C	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued) ^{123}Te Levels (continued)

E(level) [†]	J ^π	XREF	Comments
5088 10		E	
5140 10		E	
5169 10		E	
5190 10		E	
5232 10		E	
5329 10		E	
5450 10		E	
5565.8 [#] 18	(37 ⁻ /2)	C	J ^π : band assignment.
5588.8 18		C	
5644.8 [‡] 19		C	
5952.8 19		C	
6274.7 [@] 23		C	
6558.8 21		C	
6912.8 [‡] 21		C	
(6929.21 5)	1/2 ⁺	D	J ^π : s-wave capture on 0 ⁺ .
7062.8 24		C	
7090 [@] 3		C	
7296 3		C	
7481.4 [?] @ 4		C	
8030.4 [?] ‡ 4		C	

[†] From a least-squares fit to γ -ray energies for level connected by γ transitions, assuming $\Delta E\gamma=1$ keV for those (weak transitions) from (n, γ) E=th and those quoted to nearest keV and $\Delta E\gamma=0.3$ keV for others where $\Delta E\gamma$ is not given.

[‡] Band(A): Negative-parity band based on 1h_{11/2}.

[#] Band(B): Negative-parity band based on (17/2⁻).

[@] Seq.(C): Sequence based on (23/2).

Adopted Levels, Gammas (continued)

E _i (level)	J ^π _i	$\gamma(^{123}\text{Te})$							Comments
		E _γ [‡]	I _γ [‡]	E _f	J ^π _f	Mult.	δ	α [†]	
158.994	3/2 ⁺	158.99 3	100	0.0	1/2 ⁺	M1+E2	+0.079 11	0.187	B(M1)(W.u.)=0.0234 +13-11; B(E2)(W.u.)=4.1 +13-11 α(K)=0.1611 23; α(L)=0.0209 3; α(M)=0.00417 6 α(N)=0.000824 12; α(O)=8.92×10 ⁻⁵ 13 E _γ : weighted average of 159.00 5 from ¹²³ I ε decay, 159.00 3 from ¹²³ Te IT decay, 158.99 3 from (n,γ) E=th, and 158.9 1 from Coulomb excitation. Mult.: from ce data in ¹²³ Te IT decay and ¹²³ I ε decay and γ(θ) in Coulomb excitation. δ: unweighed average of 0.062 10-11 (from B(E2)=0.018 5 in Coulomb excitation, adopted T _{1/2} =196 ps 10 and adopted α(exp)=0.1910 14 from ¹²³ Te IT decay), +0.06 4 from γ(θ) in Coulomb excitation (1964Al28), 0.103 7 from independently measured δ ² from ce-γ(θ) or γγ(θ) in ¹²³ Te IT decay, 0.09 +4-7 deduced (by the evaluator using the BrIccMixing code) from all measured conversion coefficients in ¹²³ Te IT decay and ¹²³ I ε decay.
247.45	11/2 ⁻	88.46 3	100 4	158.994 3/2 ⁺	M4			1122	B(M4)(W.u.)=3.65 5 α(K)=481 7; α(L)=498 7; α(M)=118.4 17 α(N)=22.8 4; α(O)=1.97 3 E _γ , I _γ , Mult.: from ¹²³ Te IT decay, with Mult. from ce data.
		247.5 2	0.37 4	0.0	1/2 ⁺	[E5]		7.83	B(E5)(W.u.)=0.047 6 α(K)=3.05 5; α(L)=3.77 6; α(M)=0.844 13 α(N)=0.1573 24; α(O)=0.01227 19 E _γ , I _γ : from ¹²³ Te IT decay.
384.31 440.00	(7/2 ⁻ , 9/2 ⁺) 3/2 ⁺	136.76 7 281.00 4	100 18.5 7	247.45 11/2 ⁻ 158.994 3/2 ⁺		M1+E2	-0.24 +10-14	0.0409 8	B(M1)(W.u.)=0.0067 +14-12; B(E2)(W.u.)=3.4 +47-22 α(K)=0.0352 6; α(L)=0.00454 17; α(M)=0.00091 4 α(N)=0.000179 7; α(O)=1.93×10 ⁻⁵ 6 E _γ : weighted average of 281.03 5 from ¹²³ I ε decay, 281.01 3 from (n,γ) E=th, and 280.8 1 from Coulomb excitation. I _γ : from ¹²³ I ε decay. Other: 18.5 8 from (n,γ) E=th. Mult., δ: D+Q from γγ(θ) in ¹²³ I ε decay (1969Se09); M2 ruled out by RUL. Other: δ(Q/D)=-2.9 28 from particle-γ(θ) in Coulomb excitation (1989Be22).
		439.91 11	100 3	0.0	1/2 ⁺	M1+E2	-2.1 1	0.01200	B(M1)(W.u.)=0.0018 +44-31; B(E2)(W.u.)=29 +7-5 α(K)=0.01022 15; α(L)=0.001433 21; α(M)=0.000288 4 α(N)=5.63×10 ⁻⁵ 8; α(O)=5.84×10 ⁻⁶ 9

Adopted Levels, Gammas (continued)

<u>$\gamma(^{123}\text{Te})$ (continued)</u>									Comments
<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>$E_\gamma^{\ddagger}$</u>	<u>$I_\gamma^{\ddagger}$</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.</u>	<u>δ</u>	<u>$\alpha^\ddagger$</u>	
									E_γ : unweighted average of 440.02 5 from ^{123}I ε decay, 440.01 6 from (n, γ) E=th, and 439.7 1 from Coulomb excitation. I_γ : from ^{123}I ε decay and (n, γ) E=th. Mult., δ : D+Q from $\gamma\gamma(\theta)$ in Coulomb excitation (1974Ro40); M2 ruled out by RUL. Others: $\delta(\text{Q/D})=+0.14$ to 0.20 or -4.9 to -2.5 from $\gamma(\theta)$ anisotropy in ^{123}I ε decay (1979Sc13).
489.78	7/2 ⁺	330.75 6	100	158.994	3/2 ⁺	[E2]		0.0282	$B(\text{E}2)(\text{W.u.})=0.1247$ 16 $\alpha(\text{K})=0.0236$ 4; $\alpha(\text{L})=0.00370$ 6; $\alpha(\text{M})=0.000747$ 11 $\alpha(\text{N})=0.0001449$ 21; $\alpha(\text{O})=1.447\times 10^{-5}$ 21 E_γ : weighted average of 330.70 8 from ^{123}I ε decay and 330.78 6 from (n, γ) E=th.
505.35	5/2 ⁺	346.35 4	41.7 9	158.994	3/2 ⁺	M1+E2	+0.07 8	0.0236	$\alpha(\text{K})=0.0204$ 3; $\alpha(\text{L})=0.00257$ 4; $\alpha(\text{M})=0.000511$ 8 $\alpha(\text{N})=0.0001012$ 15; $\alpha(\text{O})=1.102\times 10^{-5}$ 16 $B(\text{M}1)(\text{W.u.})=0.0118$ +34-23; $B(\text{E}2)(\text{W.u.})<1.8$ E_γ : weighted average of 346.36 5 from ^{123}I ε decay, 346.37 4 from (n, γ) E=th, and 346.2 1 from Coulomb excitation. I_γ : weighted average of 41.9 9 from ^{123}I ε decay and 41.4 12 from (n, γ) E=th. Mult., δ : D+Q from $\gamma\gamma(\theta)$ in ^{123}I ε decay (1969Se09); M2 ruled out by RUL. Other: $\delta(\text{Q/D})=1.9$ from particle- $\gamma(\theta)$ in Coulomb excitation (1989Be22).
		505.30 7	100 3	0.0	1/2 ⁺	(E2)		0.00792	$\alpha(\text{K})=0.00675$ 10; $\alpha(\text{L})=0.000942$ 14; $\alpha(\text{M})=0.000189$ 3 $\alpha(\text{N})=3.70\times 10^{-5}$ 6; $\alpha(\text{O})=3.84\times 10^{-6}$ 6 $B(\text{E}2)(\text{W.u.})=25$ +8-5 E_γ : weighted average of 505.33 5 from ^{123}I ε decay, 505.38 10 from (n, γ) E=th, and 505.1 1 from Coulomb excitation. I_γ : from ^{123}I ε decay. Other: 100 4 from (n, γ) E=th. Mult.: Q from $\gamma(\theta)$ anisotropy in ^{123}I ε decay (1979Sc13); E2 required by level scheme.
532.68	(7/2 ⁻)	148.35 5 285.28 4	6.4 4 100 3	384.31 247.45	(7/2 ⁻ ,9/2 ⁺) 11/2 ⁻	[E2]		0.0454	$\alpha(\text{K})=0.0377$ 6; $\alpha(\text{L})=0.00622$ 9; $\alpha(\text{M})=0.001261$ 18 $\alpha(\text{N})=0.000244$ 4; $\alpha(\text{O})=2.39\times 10^{-5}$ 4 E_γ : other: 285.32 11 from ^{123}I ε decay.
599.00	1/2 ⁺	599.4 3	100	0.0	1/2 ⁺				E_γ : unweighted average of 599.69 16 from ^{123}I ε decay and 599.18 6 from (n, γ) E=th.
687.97	3/2 ⁺	182.62 [#] 6	1.03 [#] 5	505.35	5/2 ⁺	[M1,E2]		0.17 4	$\alpha(\text{K})=0.14$ 3; $\alpha(\text{L})=0.024$ 10; $\alpha(\text{M})=0.0048$ 21 $\alpha(\text{N})=0.0009$ 4; $\alpha(\text{O})=9\text{E}-5$ 3
		198.2 ^b	0.26 [#] 7	489.78	7/2 ⁺	[E2]		0.1546	$\alpha(\text{K})=0.1243$ 18; $\alpha(\text{L})=0.0243$ 4; $\alpha(\text{M})=0.00498$ 7 $\alpha(\text{N})=0.000952$ 14; $\alpha(\text{O})=8.92\times 10^{-5}$ 13 E_γ : other: 198.0 from (p,n γ).

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\ddagger$	E_f	J_f^π	Mult.	$\alpha^\dagger$	Comments
687.97	3/2 ⁺	247.93 7	5.50 18	440.00	3/2 ⁺	(M1+E2)	0.064 8	$\alpha(\text{K})=0.054$ 6; $\alpha(\text{L})=0.0083$ 21; $\alpha(\text{M})=0.0017$ 5 $\alpha(\text{N})=0.00032$ 9; $\alpha(\text{O})=3.3\times 10^{-5}$ 7 E_γ : weighted average of 247.97 5 from ¹²³ I ε decay and 247.80 9 from (n, γ) E=th. I_γ : weighted average of 5.45 12 from ¹²³ I ε decay and 6.1 4 from (n, γ) E=th. Mult.: D+Q from $\gamma(\theta)$ anisotropy in ¹²³ I ε decay (1979Sc13); M1+E2 required by level scheme.
		529.00 3	100.0 22	158.994	3/2 ⁺	(M1+E2)	0.0076 7	$\alpha(\text{K})=0.0065$ 6; $\alpha(\text{L})=0.00085$ 3; $\alpha(\text{M})=0.000170$ 6 $\alpha(\text{N})=3.35\times 10^{-5}$ 13; $\alpha(\text{O})=3.57\times 10^{-6}$ 22 E_γ : weighted average of 528.97 5 from ¹²³ I ε decay, 529.01 3 from (n, γ) E=th, and 528.8 5 from Coulomb excitation. I_γ : other: 100 8 from ¹²³ I ε decay. Mult.: from $\gamma\gamma(\theta)$ in ¹²³ I ε decay (1969Se09), with $\delta(\text{Q/D})=-2.8$ +6-7 or -0.09 6; M1+E2 required by level scheme.
		687.93 8	2.11 6	0.0	1/2 ⁺			E_γ : weighted average of 687.94 8 from ¹²³ I ε decay and 687.91 12 from (n, γ) E=th. I_γ : from ¹²³ I ε decay. Other: 10 4 from (n, γ) E=th.
697.50	(7/2) ⁺	192.18 [#] 7	5.7 [#] 4	505.35	5/2 ⁺	[M1,E2]	0.14 3	$\alpha(\text{K})=0.117$ 21; $\alpha(\text{L})=0.020$ 8; $\alpha(\text{M})=0.0040$ 16 $\alpha(\text{N})=0.0008$ 3; $\alpha(\text{O})=7.6\times 10^{-5}$ 24
		207.7 ^b	0.35 [#] 11	489.78	7/2 ⁺	[M1,E2]	0.111 21	$\alpha(\text{K})=0.092$ 15; $\alpha(\text{L})=0.015$ 6; $\alpha(\text{M})=0.0031$ 11 $\alpha(\text{N})=0.00059$ 20; $\alpha(\text{O})=5.9\times 10^{-5}$ 17
		257.51 [#] 15	0.49 [#] 14	440.00	3/2 ⁺	[E2]	0.0637	$\alpha(\text{K})=0.0525$ 8; $\alpha(\text{L})=0.00902$ 13; $\alpha(\text{M})=0.00183$ 3 $\alpha(\text{N})=0.000353$ 5; $\alpha(\text{O})=3.43\times 10^{-5}$ 5
		538.48 6	100 [#] 11	158.994	3/2 ⁺			E_γ : weighted average of 538.54 5 from ¹²³ I ε decay and 538.42 5 from (n, γ) E=th.
769.26		329.38 [#] 17	100 [#] 23	440.00	3/2 ⁺			
		610.05 [#] 23	42 [#] 13	158.994	3/2 ⁺			
783.62	3/2 ⁺	278.36 [#] 12	2.9 [#] 5	505.35	5/2 ⁺	[M1,E2]	0.045 4	$\alpha(\text{K})=0.038$ 3; $\alpha(\text{L})=0.0057$ 12; $\alpha(\text{M})=0.00114$ 24 $\alpha(\text{N})=0.00022$ 5; $\alpha(\text{O})=2.3\times 10^{-5}$ 4
		343.73 [#] 14	5.5 [#] 5	440.00	3/2 ⁺	[M1,E2]	0.0245 6	$\alpha(\text{K})=0.0209$ 3; $\alpha(\text{L})=0.0029$ 4; $\alpha(\text{M})=0.00059$ 7 $\alpha(\text{N})=0.000115$ 12; $\alpha(\text{O})=1.20\times 10^{-5}$ 8
		624.61 4	100 3	158.994	3/2 ⁺	M1+E2	0.0050 6	$\alpha(\text{K})=0.0043$ 5; $\alpha(\text{L})=0.00055$ 4; $\alpha(\text{M})=0.000109$ 8 $\alpha(\text{N})=2.16\times 10^{-5}$ 15; $\alpha(\text{O})=2.32\times 10^{-6}$ 21 E_γ : weighted average of 624.58 5 from ¹²³ I ε decay (13.2234 h), 624.65 4 from (n, γ) E=th, and 624.5 1 from (p,n γ). I_γ : from ¹²³ I ε decay and (n, γ). Mult.: D+Q from $\gamma(\theta)$ anisotropy (1979Sc13) and $\gamma\gamma(\theta)$ (1969Se09) in ¹²³ I ε decay, with $\delta(\text{Q/D})=+0.10$ to +0.18 or +2.3 to +4.9 from $\gamma(\theta)$ (1979Sc13); M2 ruled by RUL.

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\ddagger$	E_f	J_f^π	Mult.	$\alpha^\dagger$	Comments
783.62	3/2 ⁺	783.61 4	70 3	0.0	1/2 ⁺	M1+E2	0.0029 4	$\alpha(\text{K})=0.0025$ 3; $\alpha(\text{L})=0.00031$ 3; $\alpha(\text{M})=6.2\times 10^{-5}$ 6 $\alpha(\text{N})=1.22\times 10^{-5}$ 12; $\alpha(\text{O})=1.32\times 10^{-6}$ 15 E_γ : weighted average of 783.60 6 from ^{123}I ε decay (13.2234 h) and 783.62 4 from (n, γ) E=th. I_γ : weighted average of 68.2 22 from ^{123}I ε decay (13.2234 h) and 74 3 from (n, γ) E=th. Mult.: D+Q from $\gamma(\theta)$ anisotropy, with $\delta(\text{Q/D})=+0.20$ to +0.33 or -4.9 to -3.0 in ^{123}I ε decay (1979Sc13); M2 ruled out by RUL.
862.11	(5/2)	329.37 4 372.21 15 421.9 2 477.80 3 703.0 ^d	100 3 ≈ 0.6 4.2 11 31 1 0.4	532.68 (7/2 ⁻) 489.78 7/2 ⁺ 440.00 3/2 ⁺ 384.31 (7/2 ⁻ ,9/2 ⁺) 158.994 3/2 ⁺				
870.94	(3/2 ⁺ ,5/2,7/2 ⁺)	380.8 3 712.3 3	100 25 75 25	489.78 7/2 ⁺ 158.994 3/2 ⁺				
879.69	(7/2 ⁻)	495.32 8 632.27 15	100 15 33 8	384.31 (7/2 ⁻ ,9/2 ⁺) 247.45 11/2 ⁻				
886.9	(15/2 ⁻)	639.4 ^{&}	100	247.45 11/2 ⁻				
894.77	3/2 ⁺ ,5/2 ⁺	197.3 ^b	0.7 [#] 4	697.50 (7/2 ⁺)		[M1,E2]	0.13 3	$\alpha(\text{K})=0.108$ 19; $\alpha(\text{L})=0.018$ 7; $\alpha(\text{M})=0.0037$ 14 $\alpha(\text{N})=0.0007$ 3; $\alpha(\text{O})=7.0\times 10^{-5}$ 21
		206.8 ^b	7.1 [#] 18	687.97 3/2 ⁺		[M1,E2]	0.112 22	$\alpha(\text{K})=0.093$ 15; $\alpha(\text{L})=0.015$ 6; $\alpha(\text{M})=0.0031$ 11 $\alpha(\text{N})=0.00060$ 21; $\alpha(\text{O})=6.0\times 10^{-5}$ 17
		295.8 ^b	3.4 [#]	599.00 1/2 ⁺				
		405.00 13	5.7 [#] 7	489.78 7/2 ⁺				E_γ : weighted average of 405.02 13 from ^{123}I ε decay and 404.8 4 from (n, γ) E=th. I_γ : other: ≈ 4.1 from (n, γ) E=th.
		454.69 15	7.3 [#] 5	440.00 3/2 ⁺				E_γ : weighted average of 454.76 15 from ^{123}I ε decay and 454.4 3 from (n, γ) E=th. I_γ : other: 7.1 21 from (n, γ) E=th.
		735.82 7	100 5	158.994 3/2 ⁺				E_γ : weighted average of 735.87 11 from ^{123}I ε decay, 735.86 7 from (n, γ) E=th, and 735.7 1 from (p,n γ). I_γ : other: 100 13 from ^{123}I ε decay.
		894.8 [#] 2	1.5 [#] 2	0.0 1/2 ⁺				
919.7	(13/2 ⁻)	672.3 ^{&}	100	247.45 11/2 ⁻				
996.05	(5/2 ⁻)	556.05 [#] 13 837.10 [#] 20	100 [#] 10 19 [#] 3	440.00 3/2 ⁺ 158.994 3/2 ⁺				
1036.62	3/2 ⁺	437.6 1 546.79 10 596.43 18	48 7 24 7 47 10	599.00 1/2 ⁺ 489.78 7/2 ⁺ 440.00 3/2 ⁺				E_γ : other: 437.5 3 from ^{123}I ε decay.

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)								
$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger}$	E_f	J_f^π	Mult.	$\alpha^\dagger$	Comments
1036.62	3/2 ⁺	877.65 7	77 9	158.994	3/2 ⁺			E_γ : weighted average of 877.52 17 from ^{123}I ε decay and 877.67 7 from (n, γ) E=th. I_γ : weighted average of 93 12 from ^{123}I ε decay and 72 7 from (n, γ) E=th.
		1036.67 8	100 5	0.0	1/2 ⁺			E_γ : weighted average of 1036.63 17 from ^{123}I ε decay, 1036.69 8 from (n, γ) E=th, and 1036.6 2 from (p,n γ). I_γ : other: 100 8 from ^{123}I ε decay.
1068.23	3/2 ⁺ ,5/2 ⁺	174.2 [#] 3	53 [#] 16	894.77	3/2 ⁺ ,5/2 ⁺	[M1,E2]	0.19 5	$\alpha(\text{K})=0.16$ 4; $\alpha(\text{L})=0.028$ 13; $\alpha(\text{M})=0.006$ 3 $\alpha(\text{N})=0.0011$ 5; $\alpha(\text{O})=0.00011$ 4
		562.77 12	55 9	505.35	5/2 ⁺			E_γ : weighted average of 562.79 12 from ^{123}I ε decay and 562.71 18 from (n, γ) E=th. I_γ : weighted average of 57 9 from ^{123}I ε decay and 52 9 from (n, γ) E=th.
		578.36 15	62 6	489.78	7/2 ⁺			E_γ : weighted average of 578.26 20 from ^{123}I ε decay and 578.42 15 from (n, γ) E=th. I_γ : weighted average of 100 26 from ^{123}I ε decay and 61 4 from (n, γ) E=th.
		628.19 14	100 13	440.00	3/2 ⁺			E_γ : weighted average of 628.26 22 from ^{123}I ε decay and 628.16 14 from (n, γ) E=th. I_γ : other: 100 16 from ^{123}I ε decay.
		909.26 7	81 6	158.994	3/2 ⁺			E_γ : weighted average of 909.12 12 from ^{123}I ε decay and 909.29 6 from (n, γ) E=th. I_γ : weighted average of 82 6 from ^{123}I ε decay and 78 13 from (n, γ) E=th.
		1068.26 21	76 13	0.0	1/2 ⁺			E_γ : weighted average of 1068.12 15 from ^{123}I ε decay and 1068.58 23 from (n, γ) E=th. I_γ : from ^{123}I ε decay. Other: ≈ 65 from (n, γ) E=th.
1097.76	(3/2 ⁻ ,5/2,7/2 ⁺)	235.72 11	57 4	862.11	(5/2)			
		409.6 10	≈ 21	687.97	3/2 ⁺			
		565.15 15	68 4	532.68	(7/2 ⁻)			
		713.38 9	100 14	384.31	(7/2 ⁻ ,9/2 ⁺)			
1138.5?		267.4 ^{&d}		870.94	(3/2 ⁺ ,5/2,7/2 ⁺)			
		648.8 ^{&d}		489.78	7/2 ⁺			
1212.51	(3/2 ⁻ ,5/2 ⁺)	351.4		862.11	(5/2)			
		525.0 3	≈ 16	687.97	3/2 ⁺			
		613.0	≈ 14	599.00	1/2 ⁺			
		707.0 2	≈ 35	505.35	5/2 ⁺			
		772.49 9	100 10	440.00	3/2 ⁺			
		828.4	≈ 18	384.31	(7/2 ⁻ ,9/2 ⁺)			
		1053.8		158.994	3/2 ⁺			
1244.3	7/2 ⁺ ,9/2 ⁺	546.8 ^{&}		697.50	(7/2) ⁺			
1254.0	(3/2 ⁻ to 9/2 ⁻)	259.1	≈ 63	996.05	(5/2) ⁻			

Adopted Levels, Gammas (continued)

<u>$\gamma(^{123}\text{Te})$ (continued)</u>					
<u>$E_i(\text{level})$</u>	<u>J_i^π</u>	<u>E_γ</u>	<u>I_γ</u>	<u>E_f</u>	<u>J_f^π</u>
1254.0	(3/2 ⁻ to 9/2 ⁻)	374.4 5	≈100	879.69	(7/2 ⁻)
		391.8	≈38	862.11	(5/2)
		721.6	≈75	532.68	(7/2 ⁻)
		867.8	≈88	384.31	(7/2 ⁻ , 9/2 ⁺)
1318.11	(1/2 ⁺ , 3/2 ⁺)	534.7 3	23 7	783.62	3/2 ⁺
		812.8 3	30 9	505.35	5/2 ⁺
		878.5	≈9	440.00	3/2 ⁺
		1158.93 18	93 14	158.994	3/2 ⁺
		1318.3 3	100 14	0.0	1/2 ⁺
1327.61		822.28 11	100 14	505.35	5/2 ⁺
		888.29 ^a 17	56 11	440.00	3/2 ⁺
		1167.79 ^{ca} 18	64 11	158.994	3/2 ⁺
1344.76	(3/2 ⁻)	464.7 2	12 3	879.69	(7/2 ⁻)
		482.55 5	70 3	862.11	(5/2)
		561	≈9	783.62	3/2 ⁺
		745.80 12	≈41	599.00	1/2 ⁺
		812.12 3	100 4	532.68	(7/2 ⁻)
		839.16 20	15 3	505.35	5/2 ⁺
		905.1 3	13 2	440.00	3/2 ⁺
		1345	<7	0.0	1/2 ⁺
1353.84	(5/2 ⁺)	474.12 10	73 6	879.69	(7/2 ⁻)
		821.22 8	100 9	532.68	(7/2 ⁻)
		968.91 ^a 10	55 9	384.31	(7/2 ⁻ , 9/2 ⁺)
		1193.9	≈24	158.994	3/2 ⁺
1414.15	(5/2 ⁺)	880.7	≈10	532.68	(7/2 ⁻)
		925.4	≈12	489.78	7/2 ⁺
		1255.15 8	100 7	158.994	3/2 ⁺
1422.82	(3/2 ⁺ , 5/2 ⁺)	427.0	≈17	996.05	(5/2 ⁻)
		917.6 5	≈20	505.35	5/2 ⁺
		933.26 20	47 7	489.78	7/2 ⁺
		982.75 12	100 17	440.00	3/2 ⁺
		1262.6	≈7	158.994	3/2 ⁺
1446.35	(3/2 ⁺)	1005.0	≈48	440.00	3/2 ⁺
		1287.4 2	100 18	158.994	3/2 ⁺
1483.9	(5/2 ⁻)	994.4 5	≈100	489.78	7/2 ⁺
		1323.9	≈73	158.994	3/2 ⁺
1496.3?		625.4 ^{&d}		870.94	(3/2 ⁺ , 5/2, 7/2 ⁺)
1552.3	(17/2 ⁻)	632.7 ^{&}		919.7	(13/2 ⁻)
		665.7 ^{&}		886.9	(15/2 ⁻)
1558.35	(3/2 ⁺)	870.1	>35	687.97	3/2 ⁺
		958.7		599.00	1/2 ⁺
		1118.7 3	>45	440.00	3/2 ⁺

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)					
$E_i(\text{level})$	J_i^π	E_γ ‡	I_γ ‡	E_f	J_f^π
1558.35	$(3/2)^+$	1397.99 ^{ca} 17	100	158.994	$3/2^+$
1584.7	$(3/2^-, 5/2, 7/2^+)$	706.0	≈ 40	879.69	$(7/2^-)$
		721.5	≈ 60	862.11	$(5/2)$
		1079.5 4	≈ 100	505.35	$5/2^+$
		1144.9	≈ 100	440.00	$3/2^+$
		1425		158.994	$3/2^+$
1610.2	$(19/2^-)$	722.9 ^{&}		886.9	$(15/2^-)$
1672.0		1166.6 3	100	505.35	$5/2^+$
1683.7	$5/2^-, 7/2^-$	1149.2	≈ 100	532.68	$(7/2^-)$
		1178.8	≈ 43	505.35	$5/2^+$
		1194.1 4	≈ 100	489.78	$7/2^+$
1693.64		625.5		1068.23	$3/2^+, 5/2^+$
		832.2	≈ 85	862.11	$(5/2)$
		1160.9 2	100 30	532.68	$(7/2^-)$
		1204.4	≈ 77	489.78	$7/2^+$
1708.0	$3/2^+, 5/2^+$	463.7 ^{&}		1244.3	$7/2^+, 9/2^+$
1732.5	$(5/2^+)$	736		996.05	$(5/2)^-$
		1034.3	≈ 36	697.50	$(7/2)^+$
		1044.8	≈ 82	687.97	$3/2^+$
		1133.2	100	599.00	$1/2^+$
		1200.7	≈ 55	532.68	$(7/2^-)$
		1292.5 4	≈ 100	440.00	$3/2^+$
1759.61	$(3/2)^-$	405.4		1353.84	$(5/2)^+$
		415.9	≈ 2	1344.76	$(3/2)^-$
		881.7	≈ 5	879.69	$(7/2^-)$
		897.49 4	99 9	862.11	$(5/2)$
		1070.8	≈ 6	687.97	$3/2^+$
		1160.7 2	≈ 4	599.00	$1/2^+$
		1225.6	≈ 4	532.68	$(7/2^-)$
		1254.8	≈ 9	505.35	$5/2^+$
		1759.58 14	100 5	0.0	$1/2^+$
1795.8	$3/2^-, 5/2^+$	933.1		862.11	$(5/2)$
		1197.4		599.00	$1/2^+$
1807.72	$(3/2^-)$	454.2	≈ 5	1353.84	$(5/2)^+$
		927.3	≈ 9	879.69	$(7/2^-)$
		945.61 3	100 9	862.11	$(5/2)$
		1207.5	≈ 7	599.00	$1/2^+$
		1274.9	≈ 13	532.68	$(7/2^-)$
		1807.77 10	33 3	0.0	$1/2^+$
1839.26	$(1/2, 3/2)$	1399.33 24	78 22	440.00	$3/2^+$
		1838.8 6	100 19	0.0	$1/2^+$
1854.1	$(5/2^+)$	976.3	≈ 95	879.69	$(7/2^-)$
		992.0	≈ 37	862.11	$(5/2)$

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)						Comments
$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π	
1854.1	$(5/2^+)$	1321.4 ³	100	532.68	$(7/2^-)$	
		1349.3	≈ 21	505.35	$5/2^+$	
		1412.6	≈ 26	440.00	$3/2^+$	
		1694.9	≈ 63	158.994	$3/2^+$	
1864.4	$(3/2^+, 5/2^+)$	1002.3		862.11	$(5/2)$	
1887.38	$(3/2^-)$	1026	≈ 5	862.11	$(5/2)$	
		1288.9	≈ 76	599.00	$1/2^+$	
		1354.5	≈ 17	532.68	$(7/2^-)$	
		1384.6	≈ 19	505.35	$5/2^+$	
		1447.14 ¹⁷	100	440.00	$3/2^+$	
		1730.4	≈ 17	158.994	$3/2^+$	
		1888.2 ⁶	71 ¹⁹	0.0	$1/2^+$	
		1119.8 ³	> 52	783.62	$3/2^+$	
1903.36	$(+)$	1397.99 ^c ¹⁷	100	505.35	$5/2^+$	
		319.7 ^{&}		1610.2	$(19/2^-)$	
1930.3	$(21/2^-)$	378 [@]		1552.3	$(17/2^-)$	
		1270.5	≈ 45	687.97	$3/2^+$	
1958.4	$(3/2^+, 5/2^+)$	1359.6 ³	≈ 100	599.00	$1/2^+$	
		1468.5	≈ 35	489.78	$7/2^+$	
		1796.5	≈ 25	158.994	$3/2^+$	
		1116.04 ¹²	78 ¹⁰	862.11	$(5/2)$	
1978.05	$(3/2^-)$	1290.2	≈ 17	687.97	$3/2^+$	
		1378.2	≈ 20	599.00	$1/2^+$	
		1472.0	≈ 24	505.35	$5/2^+$	
		1538.6	≈ 44	440.00	$3/2^+$	
		1818.99 ²¹	78 ⁹	158.994	$3/2^+$	
		1977.92 ¹⁴	100 ⁷	0.0	$1/2^+$	
		1158.4 ²	49 ⁶	862.11	$(5/2)$	
		1861.1 ⁵	22 ⁵	158.994	$3/2^+$	
2020.74	$1/2^-, 3/2^-$	2021.06 ²⁰	100 ⁶	0.0	$1/2^+$	
		333	≈ 20	1759.61	$(3/2)^-$	
		1651.9	≈ 10	440.00	$3/2^+$	
		1933.57 ¹¹	100 ⁷	158.994	$3/2^+$	
2092.57	$(1/2, 3/2)$	1267.72 ¹⁵	73 ¹¹	862.11	$(5/2)$	
		1597.3 ⁴	≈ 27	532.68	$(7/2^-)$	
		1624.24 ²⁰	100 ¹¹	505.35	$5/2^+$	
		1973.6	≈ 22	158.994	$3/2^+$	
		2129.7	≈ 78	0.0	$1/2^+$	
2129.80	$(3/2^-)$	350.2	≈ 4	1807.72	$(3/2^-)$	
		397.6	≈ 3	1759.61	$(3/2)^-$	
		1373.6	≈ 7	783.62	$3/2^+$	
		1718.73 ^a ¹⁰	34 ³	440.00	$3/2^+$	
		1999.04 ⁴	100 ³	158.994	$3/2^+$	
2158.06	$1/2^-, 3/2^-$					E _γ : poor-fit, level-energy difference=1970.8.

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\ddagger$	E_f	J_f^π	Mult.	Comments
2158.06	1/2 ⁻ ,3/2 ⁻	2158.5	≈12	0.0	1/2 ⁺		
2197.30	(1/2 ⁺ ,3/2)	437.5 ³	≈41	1759.61	(3/2) ⁻		
		842.8	≈18	1353.84	(5/2) ⁺		
		1335.9	≈59	862.11	(5/2)		
		1690.8	≈21	505.35	5/2 ⁺		
		2038.0	≈12	158.994	3/2 ⁺		
		2197.6 ³	100 ²¹	0.0	1/2 ⁺		
2357.9		806 @		1552.3	(17/2 ⁻)		
2358.3	(23/2 ⁻)	427.7 &		1930.3	(21/2 ⁻)		
		748 @		1610.2	(19/2 ⁻)		
2621.89	(1/2 ⁺ ,3/2)	1759.8 ²	54 ¹³	862.11	(5/2)		
		2023.2	≈100	599.00	1/2 ⁺		
		2115.2	≈69	505.35	5/2 ⁺		
		2622	≈75	0.0	1/2 ⁺		
2644.7	(1/2,3/2)	666.6	≈100	1978.05	(3/2) ⁻		
		1085.86 ^d ¹⁵	59 ¹⁰	1558.35	(3/2) ⁺		
		1782.6		862.11	(5/2)		
2684.2	(21/2 ⁻ ,23/2 ⁻)	326 @		2358.3	(23/2 ⁻)		
		754 @		1930.3	(21/2 ⁻)		
		1074 @		1610.2	(19/2 ⁻)		
2726.23	(1/2,3/2)	919.6	≈14	1807.72	(3/2 ⁻)		
		1167.79 ^c ¹⁸		1558.35	(3/2) ⁺		
		1864.19 ¹⁸	100 ⁹	862.11	(5/2)		
		2567.1	≈30	158.994	3/2 ⁺		
		2725	≈59	0.0	1/2 ⁺		
2811.9	1/2 ⁻ ,3/2 ⁻	614.51 ^d ¹⁰	100	2197.30	(1/2 ⁺ ,3/2)		
2812.6	(23/2)	455 @		2357.9			
		881.8 &		1930.3	(21/2 ⁻)	D	Mult.: from $\gamma\gamma(\text{DCO})$ in ($^{11}\text{B},\text{p3n}\gamma$).
2937.2	1/2 ⁻ ,3/2 ⁻	1129.5 ⁵	100	1807.72	(3/2 ⁻)		
3039.0	(25/2 ⁻)	355 @		2684.2	(21/2 ⁻ ,23/2 ⁻)		
		1109 @		1930.3	(21/2 ⁻)		
3376.7	(27/2 ⁻)	338 @		3039.0	(25/2 ⁻)		
		1018 @		2358.3	(23/2 ⁻)		
3551.6	(27/2)	739 @		2812.6	(23/2)		
3813.1		774 @		3039.0	(25/2 ⁻)		
		1129 @		2684.2	(21/2 ⁻ ,23/2 ⁻)		
4113.0	(29/2 ⁻)	300 @		3813.1			
		1074 @		3039.0	(25/2 ⁻)		

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)							
$E_i(\text{level})$	J_i^π	$E_\gamma^\ddagger$	$I_\gamma^\ddagger$	E_f	J_f^π	Mult.	Comments
4201.7	(31/2)	650@		3551.6	(27/2)		
4253.8	(31/2 ⁻)	877@		3376.7	(27/2 ⁻)		
4358.0?		1319@d		3039.0	(25/2 ⁻)		
4627.8	(33/2 ⁻)	269@d		4358.0?			
		374@		4253.8	(31/2 ⁻)		
		426@		4201.7	(31/2)		
		515@		4113.0	(29/2 ⁻)		
4748.7	(33/2)	547@		4201.7	(31/2)	D	Mult.: from $\gamma\gamma(\text{DCO})$ in ($^{11}\text{B}, \text{p}3\text{n}\gamma$).
5009.8	(35/2 ⁻)	382@		4627.8	(33/2 ⁻)		
		756@		4253.8	(31/2 ⁻)		
5034.7		286@		4748.7	(33/2)		
5565.8	(37 ⁻ /2)	556@		5009.8	(35/2 ⁻)		
5588.8		579@		5009.8	(35/2 ⁻)		
5644.8		635@		5009.8	(35/2 ⁻)		
5952.8		307@d		5644.8			
		364@		5588.8			
		387@		5565.8	(37 ⁻ /2)		
6274.7		1240@		5034.7			
6558.8		606@		5952.8			
6912.8		1268@		5644.8			
(6929.21)	1/2 ⁺	3972		2957.3	(1/2,3/2)		
		3982.4 3	0.19 3	2946.8	(1/2,3/2)		
		3991.5 3	0.38 3	2937.2	1/2 ⁻ ,3/2 ⁻		
		4117.3 3	0.30 8	2811.9	1/2 ⁻ ,3/2 ⁻		
		4203.0 4	0.92 4	2726.23	(1/2,3/2)		
		4242.4 5	0.58 5	2686.8	1/2 ⁻ ,3/2 ⁻		
		4285.1 4	0.18 2	2644.7	(1/2,3/2)		
		4307.7 3	0.58 2	2621.89	(1/2 ⁺ ,3/2)		
		4731.7 3	0.96 3	2197.30	(1/2 ⁺ ,3/2)		
		4770.70 9	2.60 5	2158.06	1/2 ⁻ ,3/2 ⁻		
		4797.3 6	0.43 3	2129.80	(3/2) ⁻		
		4836.79 11	0.52 3	2092.57	(1/2,3/2)		
		4908.76 23	0.92 2	2020.74	1/2 ⁻ ,3/2 ⁻		
		4950.88 23	0.77 3	1978.05	(3/2) ⁻		
		5041.1 3	0.45 3	1887.38	(3/2) ⁻		
		5088.7 5	≈0.05	1839.26	(1/2,3/2)		
		5121.63 10	1.33 3	1807.72	(3/2 ⁻)		
		5169.55 7	2.26 5	1759.61	(3/2) ⁻		

Adopted Levels, Gammas (continued)

$\gamma(^{123}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger}$	E_f	J_f^π	$E_i(\text{level})$	J_i^π	$E_\gamma^{\ddagger}$	$I_\gamma^{\ddagger}$	E_f	J_f^π
(6929.21)	1/2 ⁺	5371		1558.35	(3/2) ⁺	(6929.21)	1/2 ⁺	6770.17 23	0.16 1	158.994	3/2 ⁺
		5482.6 8	≈0.05	1446.35	(3/2) ⁺			6928.9 3	0.08 1	0.0	1/2 ⁺
		5584.45 11	1.27 3	1344.76	(3/2) ⁻	7062.8		504 @		6558.8	
		5610.6 3	0.13 4	1318.11	(1/2 ⁺ , 3/2 ⁺)	7090		815 @		6274.7	
		5892.7 3	0.13 4	1036.62	3/2 ⁺	7296		233 @		7062.8	
		6329.6 3	0.18 6	599.00	1/2 ⁺	7481.4?		394 @d		7090	
		6424.6 ^d 3	≈0.01	505.35	5/2 ⁺	8030.4?		1119 @d		6912.8	
		6489.0 5	0.06 2	440.00	3/2 ⁺						

[†] Additional information 2.

[‡] From ¹²²Te(n,γ) E=th, unless otherwise noted. Those γ rays from (n,γ) E=th without uncertainty in energy are weak transitions seen only in γγ-coin, for which ΔEγ=1 keV has been assumed in the fitting procedure to obtain level energies by the evaluator.

From ¹²³I ε decay.

@ From ¹¹⁶Cd(¹¹B,p3nγ) (1996BI12).

& From ¹²⁴Sn(³He,4nγ), ¹²³Sb(d,2nγ) (1978HaYQ). No uncertainties are given in 1978HaYQ and an uncertainty of ΔEγ=0.3 keV for each Eγ has been assumed by the evaluator in the fitting procedure to obtain level energies.

^a Poor fit. Uncertainty is increased to 0.3 keV in the fitting (except for 0.5 keV for 1397.99γ).

^b From level-energy difference.

^c Multiply placed.

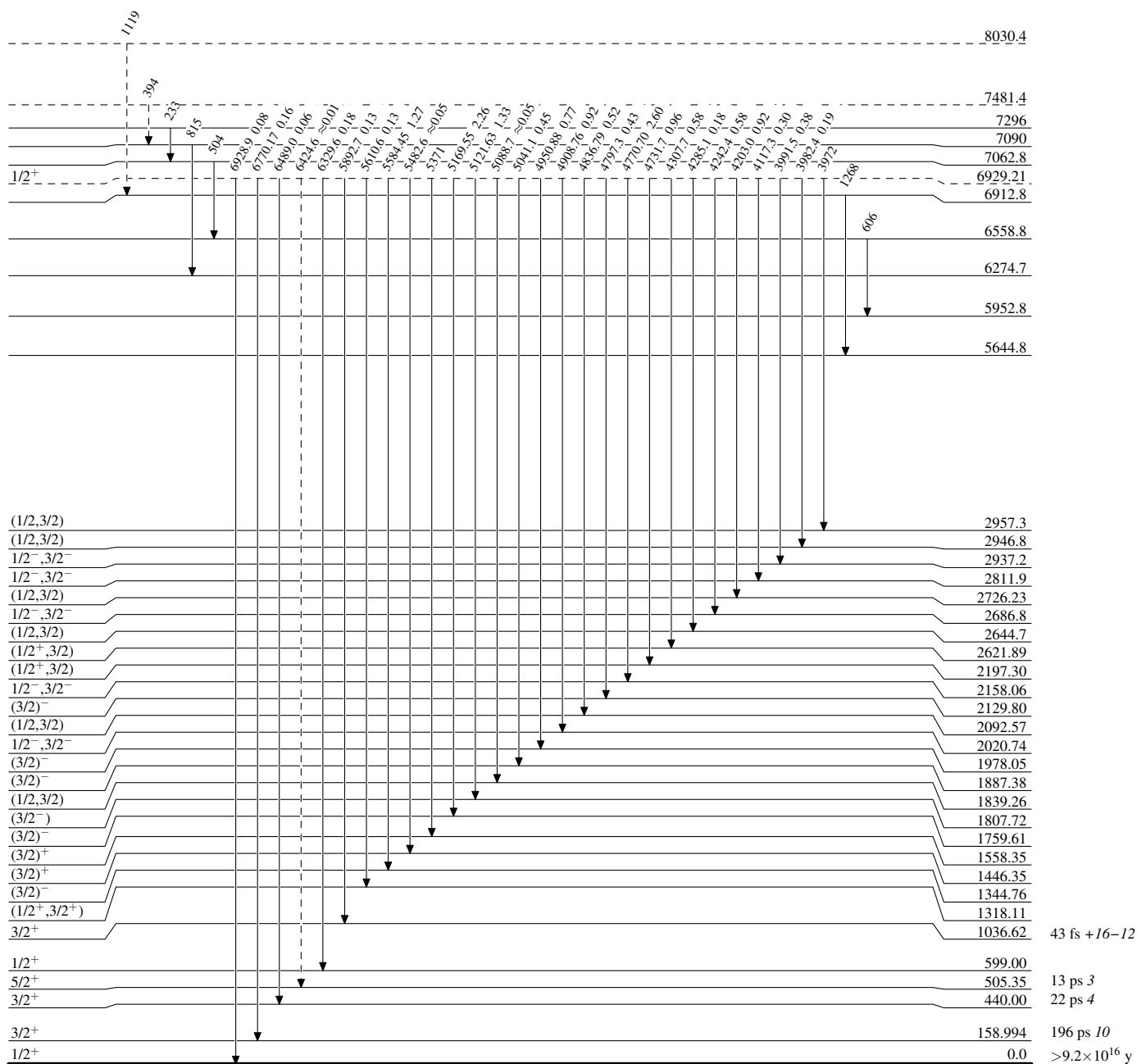
^d Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

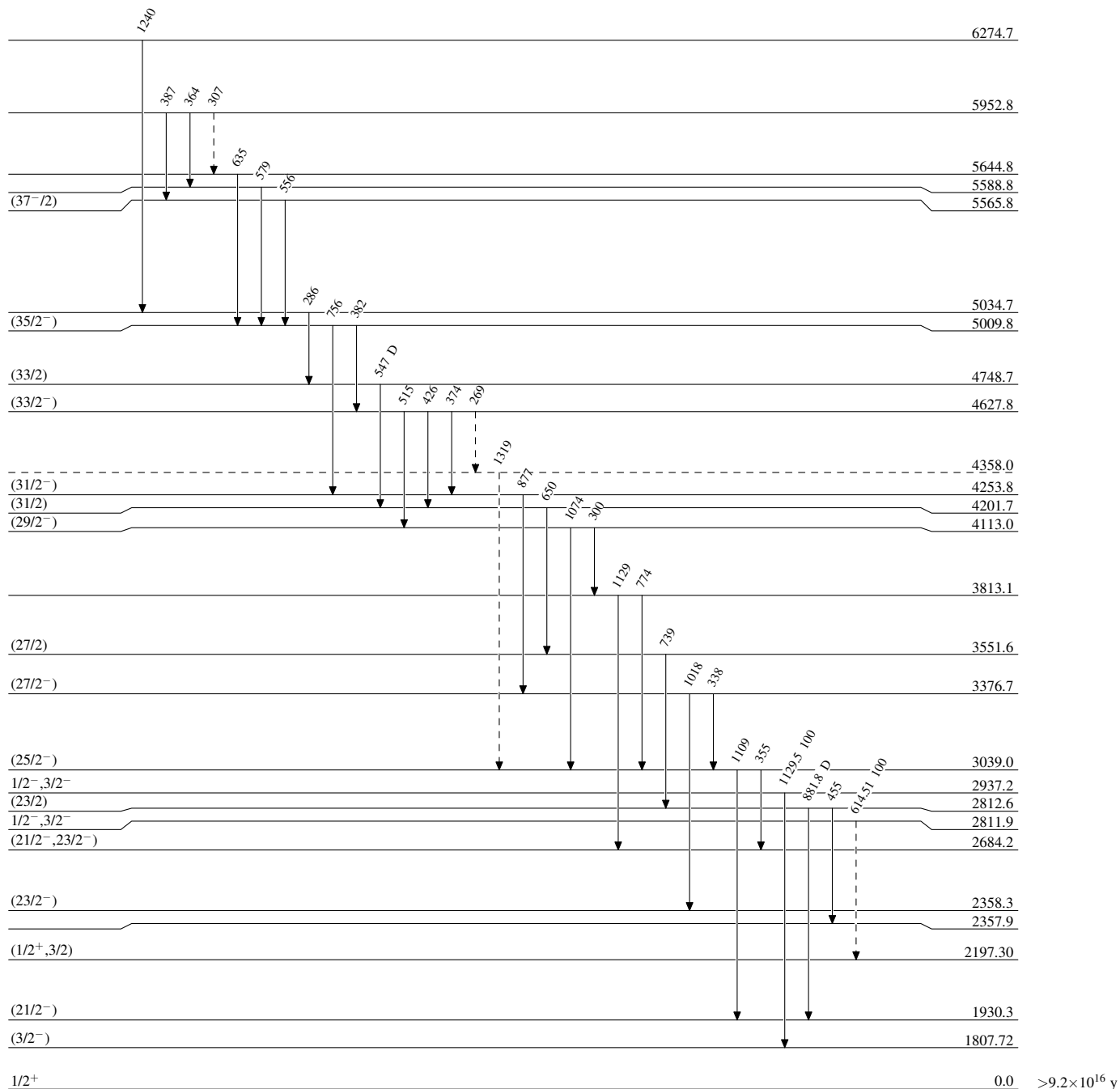
-----► γ Decay (Uncertain)


Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

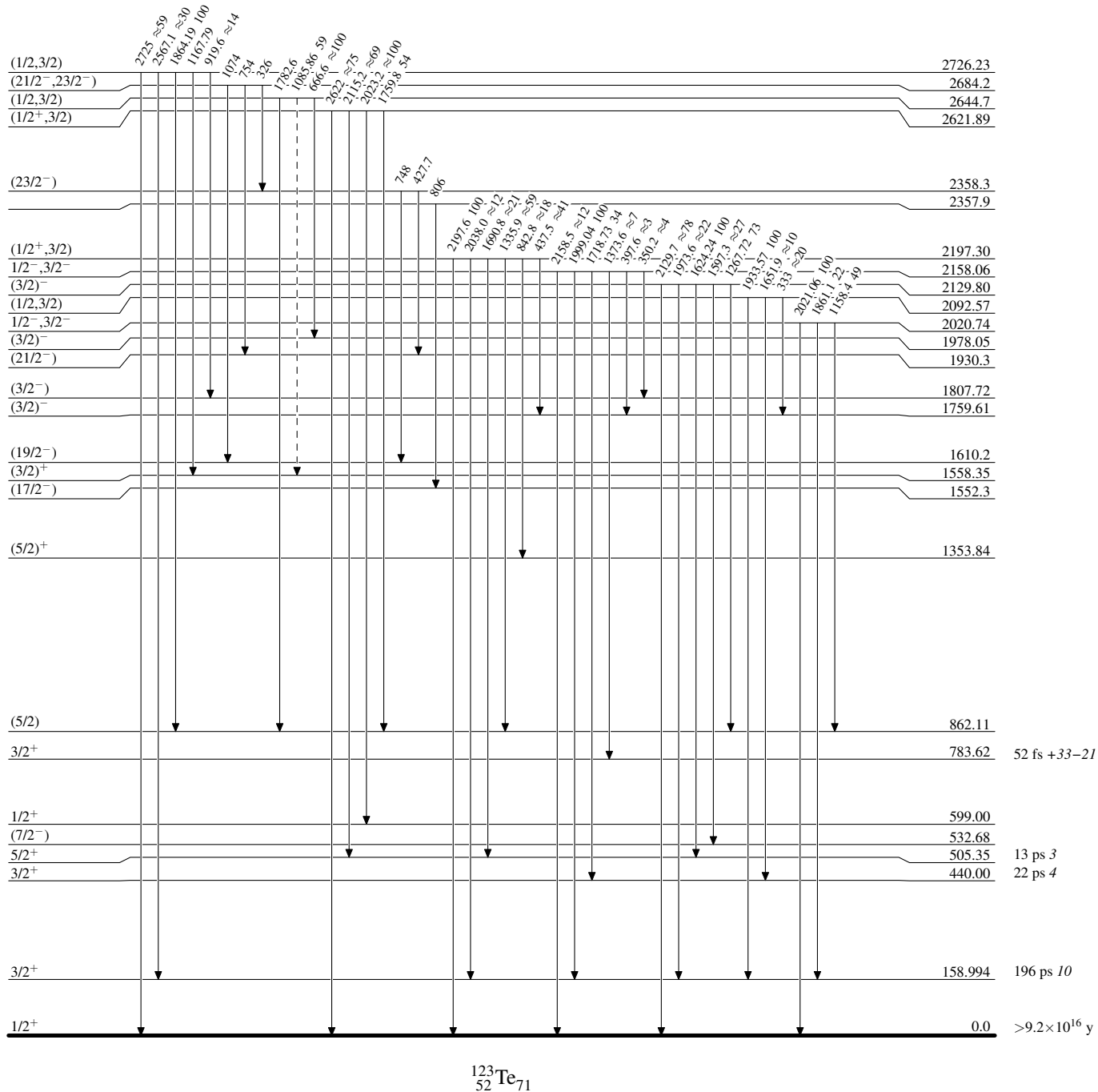
-----► γ Decay (Uncertain)


Adopted Levels, Gammas

Legend

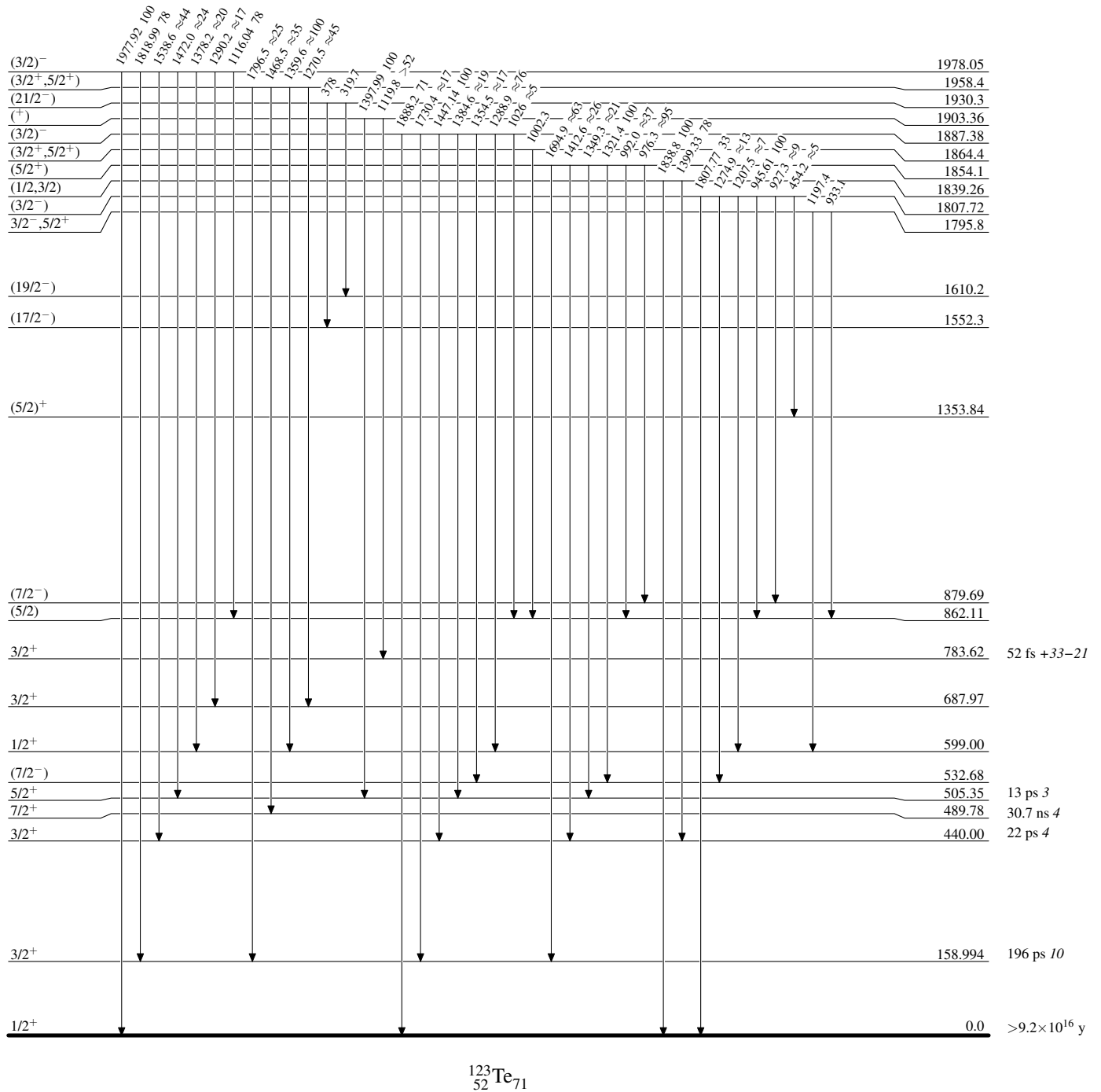
Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)

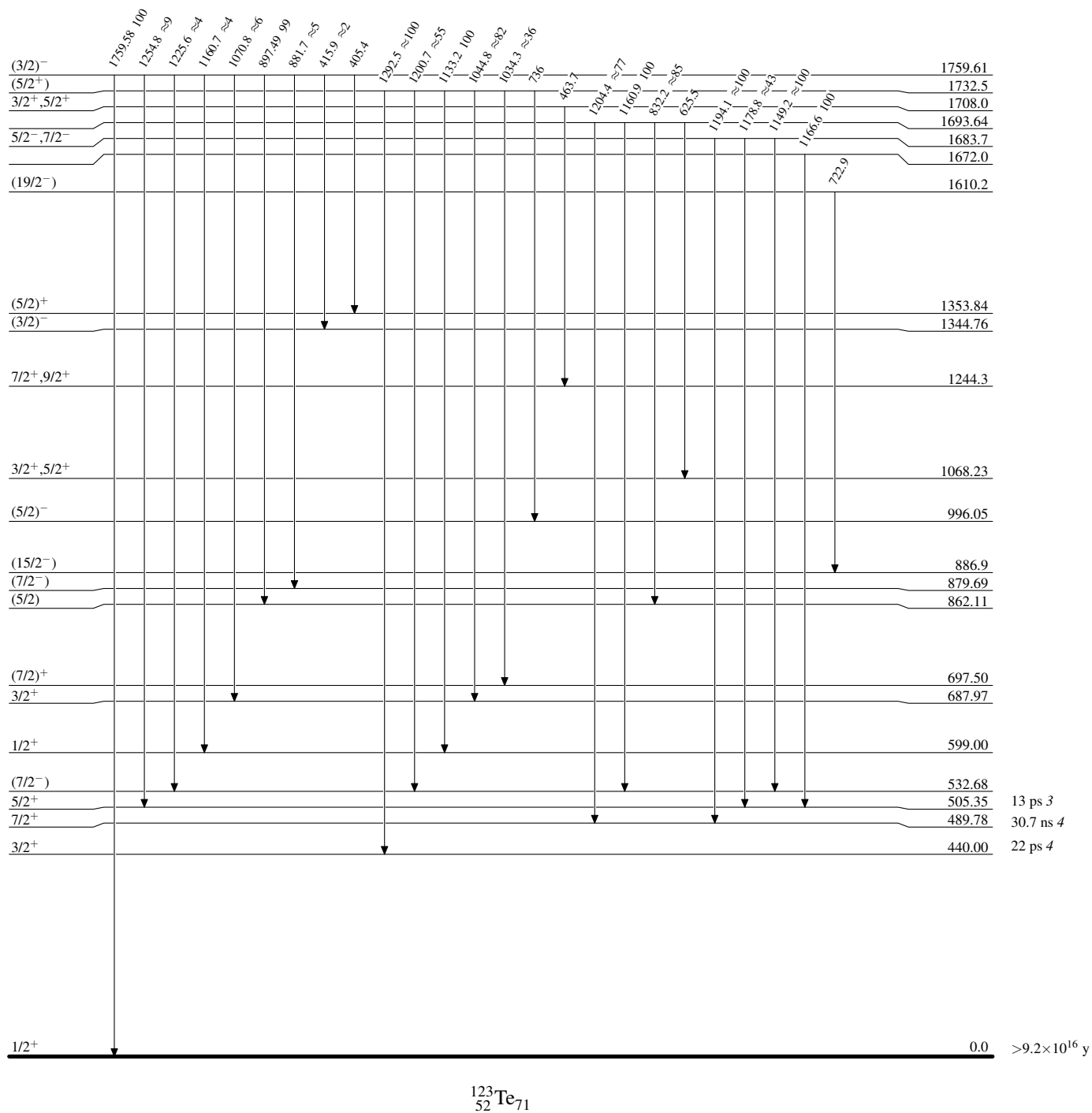
Adopted Levels, GammasLevel Scheme (continued)

Intensities: Relative photon branching from each level



Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Relative photon branching from each level



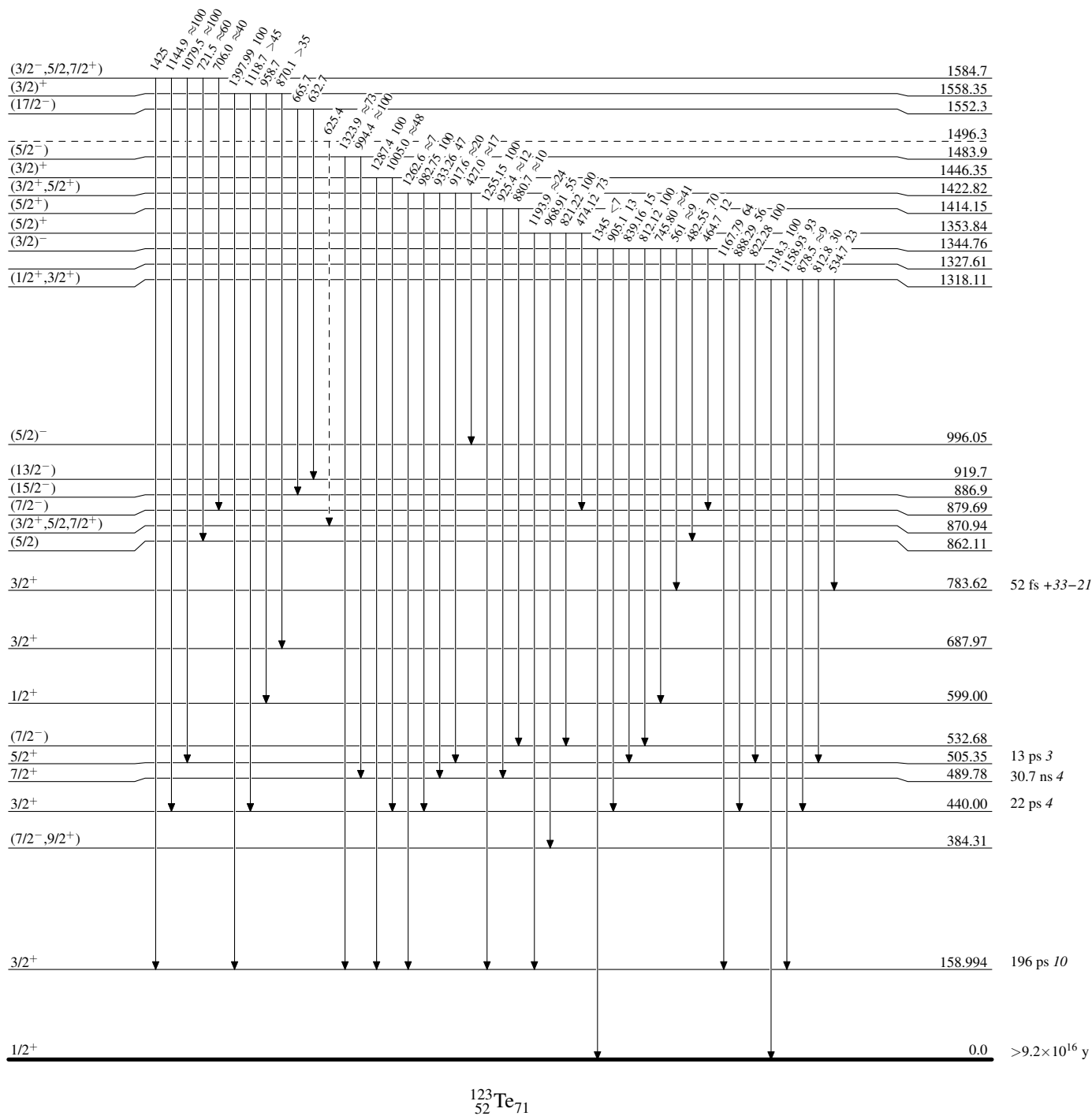
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)



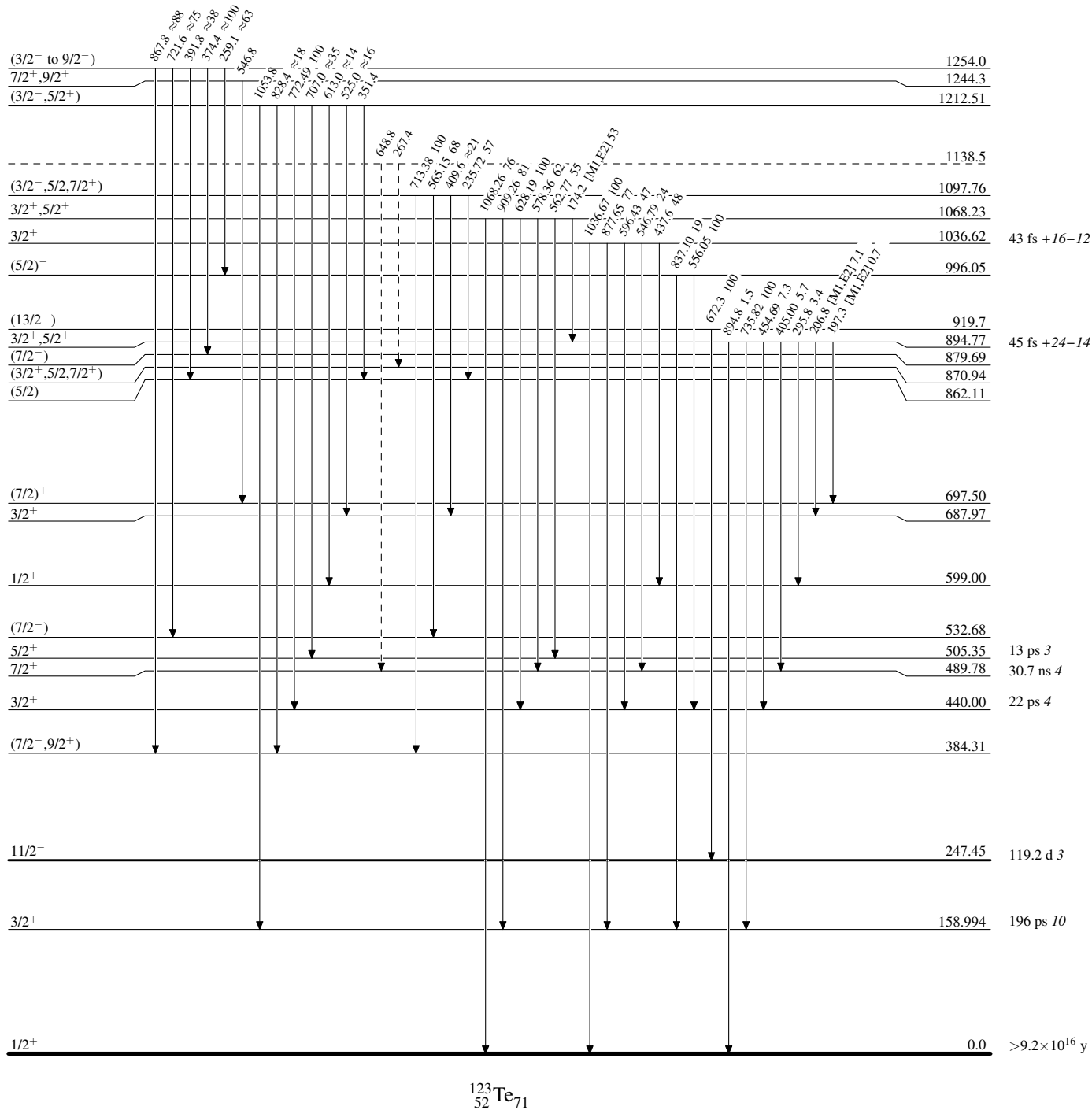
$^{123}_{52}\text{Te}_{71}$

Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----► γ Decay (Uncertain)


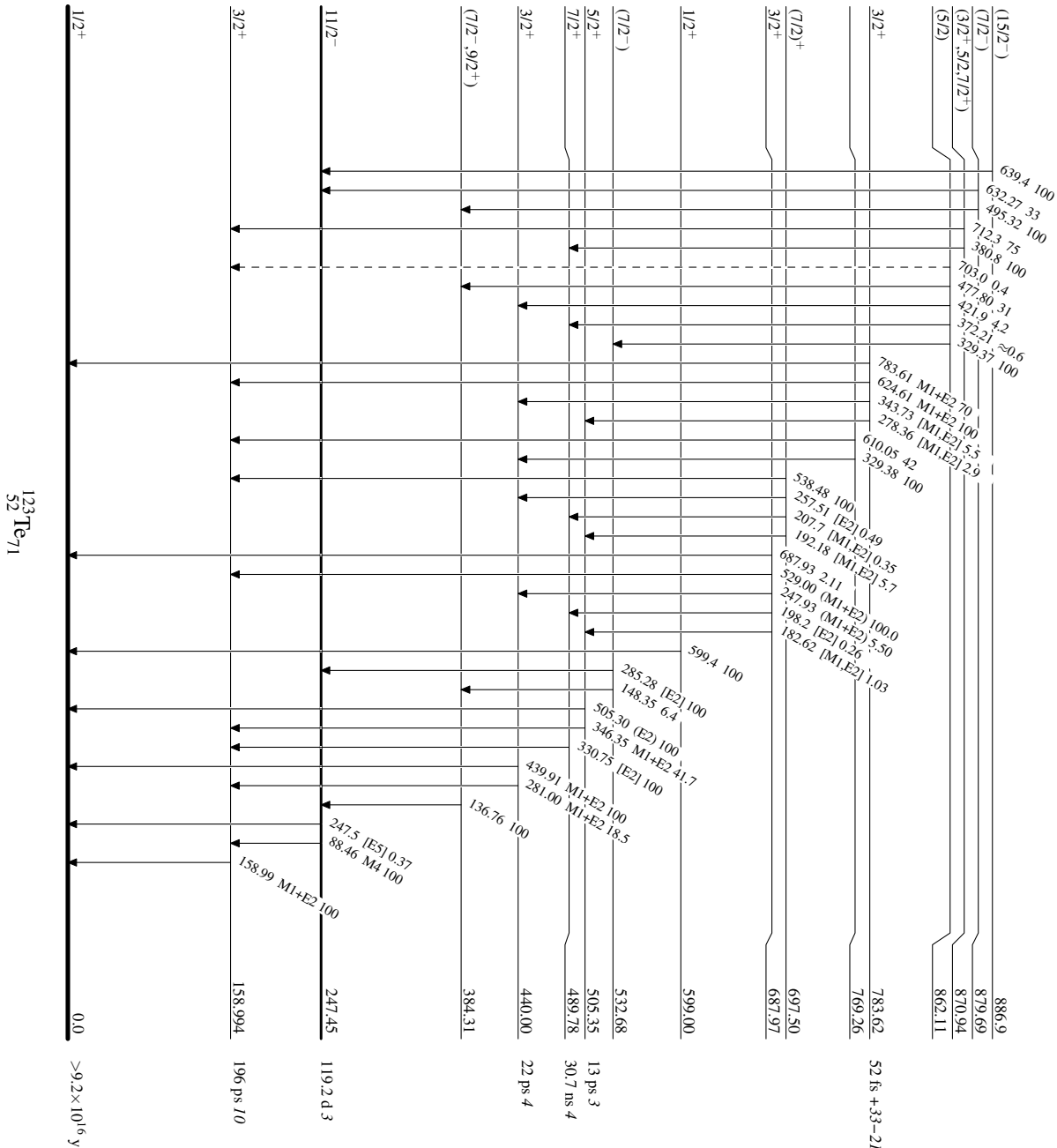
Adopted Levels, Gammas

Legend

Level Scheme (continued)

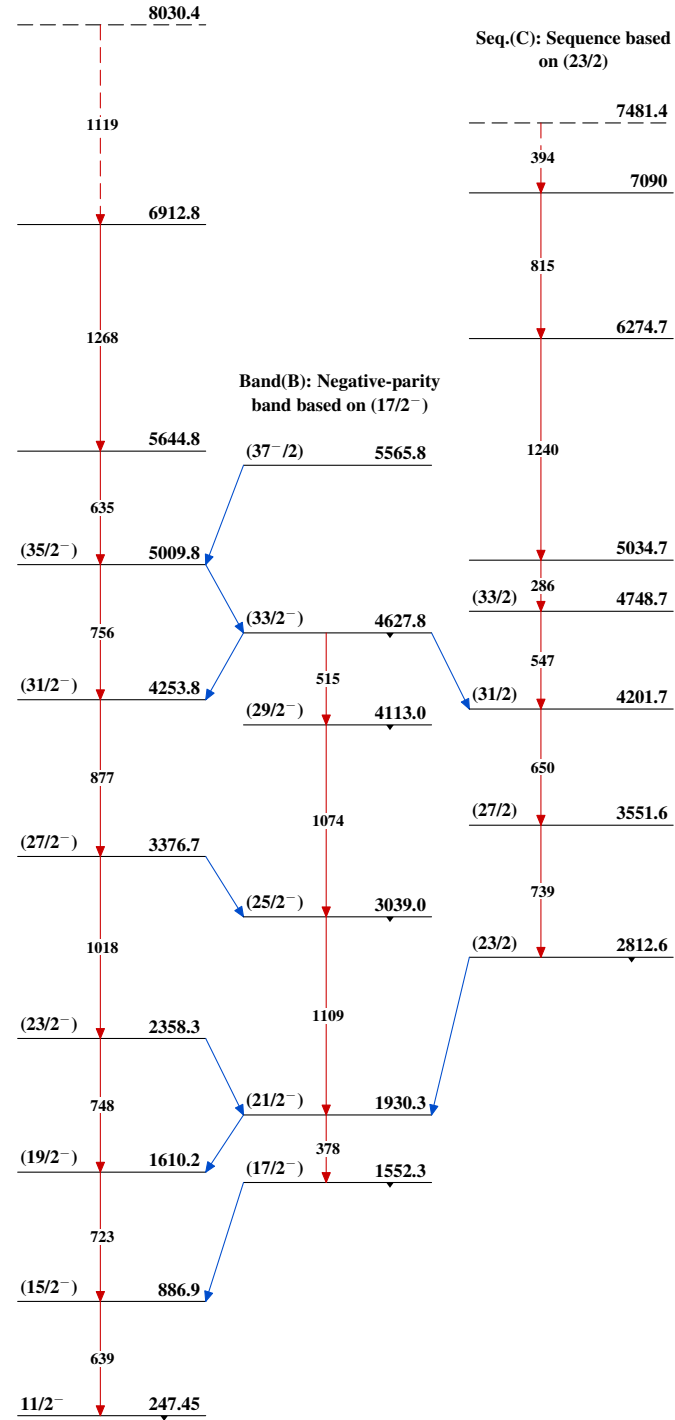
Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain)



Adopted Levels, Gammas

Band(A): Negative-parity
band based on $1h_{11/2}$

 $^{123}_{52}\text{Te}_{71}$