

Adopted Levels, Gammas

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Zoltan Elekes and Janos Timar		NDS 129, 191 (2015)	28-Feb-2015

$Q(\beta^-) = -1255.4$; $S(n) = 8783.4$; $S(p) = 9583.5$; $Q(\alpha) = -3184.4$ 13 2012Wa38

 ^{128}Te LevelsCross Reference (XREF) Flags

A	^{128}Sb β^- decay (9.05 h)	F	Coulomb excitation	K	$^{130}\text{Te}(p,t)$
B	^{128}Sb β^- decay (10.41 min)	G	$^{128}\text{Te}(\alpha, \alpha')$	L	$^{130}\text{Te}(^{64}\text{Ni}, X)$
C	^{128}I ε decay	H	$^{128}\text{Te}(d, d')$	M	$^{235}\text{U}(n, F\gamma)$
D	$^{126}\text{Te}(t, p)$	I	$^{128}\text{Te}(\gamma, \gamma')$	N	$^{238}\text{U}(^{18}\text{O}, F\gamma)$
E	$^{128}\text{Te}(n, n'\gamma)$	J	$^{128}\text{Te}(p, p')$	O	$^{238}\text{U}(^{12}\text{C}, F\gamma)$

E(level)	J^π	$T_{1/2}^\#$	XREF	Comments
0.0 [†]	0 ⁺ [‡]	7.7×10^{24} y 4	ABCDEFGHIJKLMNO	$\%2\beta^- = 100$ $T_{1/2}$: $T_{1/2}(2\beta^-)$ if $T_{1/2}(^{130}\text{Te})/T_{1/2}(^{128}\text{Te}) = 3.52 \times 10^{-4}$ 11 and $T_{1/2}(^{130}\text{Te}) = 2.7 \times 10^{21}$ 1 (1992Be30, 1993Be04). Others: 2.2×10^{-24} 3 for $T_{1/2}(^{130}\text{Te})/T_{1/2}(^{128}\text{Te}) = 3.52 \times 10^{-4}$ 11 and $T_{1/2}(^{130}\text{Te}) = 7.9 \times 10^{20}$ 10 (1996Ta04). $< 8.6 \times 10^{22}$ y (2000Al26), $> 1.1 \times 10^{23}$ y to g.s. (2003Ar02), $> 8.8 \times 10^{18}$ y to g.s., $> 1.3 \times 10^{18}$ y to 443 (2003Ki08), $< 3.11 \times 10^{19}$ y (2006Zu02), 5.4×10^{19} y to g.s. (2007Bl15), 1.7×10^{20} y to g.s. (2009Da16), 1.7×10^{20} y to g.s. (2010Zu02). $Q = -0.06$ 5; $\mu = +0.58$ 6 μ : weighted average of $+0.50$ 6 (1988Du10), $+0.62$ 8 (1981Sh15) and $+0.70$ 8 (1985ThZX). Q : from Coulomb excitation reorientation (1978Be10). 1978Be10 also reported -0.14 12 as recalculated value. J^π : $L(p, p') = 2$, $L(\alpha, \alpha') = 2$, E2 γ to 0 ⁺ . $T_{1/2}$: from $B(E2) = 0.377$ 3 in Coulomb excitation. XREF: G(1480)h(1490). J^π : see 1811 level. XREF: h(1490). J^π : E2 γ to 0 ⁺ . J^π : E1 γ from 7 ⁻ 2337 to 1811 and E2 γ 's from 1811 to 1497 and from 1497 to 2 ⁺ 743 uniquely establish $J^\pi(1811) = 6^+$ and $J^\pi(1497) = 4^+$. $T_{1/2}$: weighted average of 0.48 ns 3 in ^{128}Sb β^- decay (9.01 h) and 0.42 ns 3 in ^{128}Sb β^- decay (10.4 min). XREF: g(2010)j(1972). J^π : M1+E2 γ to 2 ⁺ . XREF: g(2010)h(2020)j(1972). E(level): from (p, t). XREF: K(1982). J^π : $L(p, t) = 0$. XREF: G(2010)h(2020). J^π : M1+E2 γ to 4 ⁺ , $L(p, p') = 4$. XREF: h(2120).
743.216 [†] 17	2 ⁺ [‡]	3.30 ps 3	ABCDEFGH JKLMNO	
1497.020 [†] 22	4 ⁺ [‡]		AB EFGH JKLMNO	
1519.995 21	2 ⁺	1.7 ps +8-4	EF hIJKL	
1811.13 [†] 3	6 ⁺ [‡]	0.45 ns 3	AB E J LMNO	
1968.485 25	1 ⁺ , 2 ⁺ , 3 ⁺	209 fs +17-15	E g j	
1972 2			ghIjK	
1978.80 3	0 ⁺	1.4 ps +12-8	E K	
2027.77 3	4 ⁺	0.37 ps +19-10	E Gh JKL	
2133.29 3	5 ⁻		A E h JKL NO	

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Adopted Levels, Gammas (continued) ^{128}Te Levels (continued)

E(level)	J^π	$T_{1/2}^\#$	XREF		Comments
2163.542 24	3^+	0.57 ps +16–10	E	h K	J^π : L(p,t)=5, L(p,p')=5, E1+M2 γ to 4^+ . XREF: h(2120).
2193.48 3	2^+	49.9 fs 14	E	K	J^π : M1+E2 γ 's to 3^+ and 4^+ . XREF: K(2196.0).
2217.95 3	$1^+, 2^+, 3^+$	0.4 ps +6–5	E		J^π : E2 γ to 0^+ , M1+E2 γ to 2^+ .
2270.33 3	$3^+, 4^+, 5^+$	177 fs +28–20	E	K	J^π : M1+E2 γ to 2^+ . XREF: K(2274).
2308.30 4	0^+	>1.7 ps	E	h K	J^π : M1+E2 γ to 4^+ . XREF: h(2340)K(2312.2).
2337.68 5	$(7)^-$	2.404 ns 24	A	E h JKL NO	J^π : L(p,t)=0. XREF: h(2340)J(2360)K(2341).
2352.11 3	2^+	137 fs +10–7	E	h K	J^π : E1+M2 γ to 6^+ , L(p,t)=7. $T_{1/2}$: from (814 γ)(527 γ)(t) in ^{128}Sb β^- decay (9.05 h).
2395.92 3	4^-		E	KL	XREF: h(2340)K(2353.8). J^π : E2 γ to 0^+ , M1+E2 γ to 2^+ . XREF: K(2390).
2405.30 8	$(4^+, 5, 6^+)$		AB	E KL	J^π : M1+E2 γ from 2395 to 5^- , and the E1+M2, M1+E2 cascade from 2395 to 2163 to 2^+ uniquely establishes $J^\pi(2395)=4^-$, $J^\pi(2163)=3^+$. XREF: K(2409).
2426.00 4	$3^+, 4^+, 5^+$	86 fs +10–8	E	H K	J^π : γ 's to 4^+ and 6^+ . XREF: H(2480)K(2429).
2.44×10^3 2	3^-		FGh		J^π : M1+E2 γ to 4^+ . XREF: G(2440)h(2480).
2456.75 21			E	O	J^π : L(α, α')=3.
2482.22 7		0.20 ps +5–3	E		
2485 2	3^-			h JK	XREF: h(2480). J^π : L(p,t)=3.
2487.44 3	3^+	0.32 ps +11–7	E	h	B(E3) $\approx$ 0.45 in Coulomb excitation. E(level): from (p,t). XREF: h(2480).
2494.20 3	$(3)^-$	236 fs +28–21	E	h jK	J^π : M1+E2 γ 's to 2^+ and 4^+ . XREF: h(2480)j(2490).
2508.06 4	2^+	0.37 ps +6–5	E	h	J^π : E1+M2 γ to 2^+ , L(p,t)=(3). XREF: h(2480).
2516.64 6			E	K	J^π : E2 γ to 0^+ , M1+E2 γ to 2^+ .
2550.52? 3	3^+	0.18 ps +4–3	E		J^π : M1+E2 γ 's to 2^+ and 4^+ .
2571.17 4	4,5		E	K	XREF: K(2573). J^π : D+Q γ 's to 5^- and 4^- .
2587.14 22			A	E L	
2598.99 5			B	E KL	XREF: K(2602).
2630.14 4	$1^+, 2^+, 3^+$	95 fs 10	E	K	XREF: K(2633).
2643.28 6		0.16 ps +5–8	E		J^π : M1+E2 γ to 2^+ .
2655.10 17			AB	E K	XREF: K(2650).
2665.31 10		0.15 ps +46–8	E	K	
2688.99† 24	$(8^+)^\ddagger$		A	L NO	J^π : Q ($\Delta J=2$) γ to 6^+ , high spin ordering in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
2701.0 3			E		
2706.65 4	$1^+, 2^+, 3^+$	80 fs 6	E	gh JK	XREF: g(2720)h(2730).
2712.23? 4	$1^+, 2^+, 3^+$	162 fs 11	E	gh	J^π : M1+E2 γ to 2^+ . XREF: g(2720)h(2730). J^π : M1+E2 γ to 2^+ .

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Adopted Levels, Gammas (continued)

^{128}Te Levels (continued)					
E(level)	J^π	$T_{1/2}^\#$	XREF		Comments
2718.80 12	3 ⁺	0.71 ps +53-21	A	E gh	XREF: g(2720)h(2730).
2736.25 13				E Gh	XREF: G(2720)h(2730).
2748.66 4				E gh	XREF: g(2720)h(2730).
2749.57 21	3 ⁻ , 4 ⁻ , 5 ⁻ , 6 ⁻ , 7 ⁻	16.6 fs 21	A	E	J^π : M1+E2 γ 's to 2 ⁺ and 4 ⁺ .
2762.03 8				E K	XREF: K(2759).
2763.96 10				E	J^π : M1, E2 γ to 5 ⁻ .
2776.86 6	(10 ⁺) $\frac{3}{2}^+$	236 ns 20	A	E	E(level): from (p,t).
2790 10				K	$T_{1/2}$: from $\gamma(t)$ in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$, 0.37 μs 3 from $\gamma(t)$ in $^{130}\text{Te}(^{64}\text{Ni}, \text{X})$ and 337 ns 59 in 2004Va03.
2790.8 $\frac{1}{2}^+$ 3				L NO	J^π : E2 γ to (8 ⁺), high spin ordering in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
2817.18 23	(1, 2 ⁺)	150 fs +19-17	A	E	XREF: K(2820).
2820.71 5				E K	J^π : γ 's to 0 ⁺ and 2 ⁺ .
2830.66 9				E	J^π : γ 's to 4 ⁺ and 6 ⁺ .
2851.90 6	(4 ⁺ , 5, 6 ⁺)	0.29 ps +13-8	A	B E	J^π : γ 's to 4 ⁺ and 6 ⁺ .
2858.6 4				L	
2861.92 17				E	
2869.00? 8	(1, 2 ⁺)	0.28 ps +13-7		E j	XREF: j(2900).
2884.51 6	1 ⁺ , 2 ⁺ , 3 ⁺	0.39 ps 3		E h jk	J^π : γ 's to 0 ⁺ and 2 ⁺ .
2885.01 13	5	98 fs +40-26		E h jk	XREF: h(2910)j(2900)k(2886).
2891.46 7	2 ⁺	187 fs +29-24		E h jk	J^π : D+Q γ 's to 4 ⁺ and 6 ⁺ .
2901.0 3	3 ⁺ , 4 ⁺ , 5 ⁺	0.67 ps +48-35	A	h jkL	XREF: h(2886)j(2900)k(2886).
2904.42 11				E	J^π : E2 γ to 0 ⁺ , M1+E2 γ to 2 ⁺ .
2912.78 6				E h jk	XREF: h(2910)j(2900)k(2910).
2921.55 14	3 ⁺ , 4 ⁺ , 5 ⁺	1.2 ps +23-8	A	E	XREF: h(2910).
2923.82 20				h L	XREF: h(2910)j(2900)K(2932).
2931.86? 5				E h jK	J^π : M1+E2 γ to 4 ⁺ .
2952.6 17	(8 ⁻)	0.7 ps +12-3	A	E L	J^π : D γ to (7) ⁻ , high spin ordering in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
2954.87 6				E	
2966.9 4				O	
2969.0 3	3 ⁺	111 fs +31-22	A	E	J^π : M1+E2 γ 's to 2 ⁺ and 4 ⁺ .
2983.31? 5				E	
2985.53 10				E	
2997.49 15	1, 2 ⁺	102 fs +20-21	A	E K	
2997.8 3				E	
3030.11 8				E h k	XREF: h(3060)k(3031).
3030.53 21	3	274 fs +17-12	A	h k	J^π : γ 's to 0 ⁺ and 2 ⁺ .
3038.73 13				E	XREF: h(3060)k(3031).
3048.45 17				E	
3054.50 10	3	274 fs +17-12	A	E gh jK	XREF: g(3090)h(3060)j(3070).
3067.15 6				E gh jK	XREF: g(3090)h(3060)j(3070).
3071.60 11				E g	J^π : D+Q γ 's to 2 ⁺ and 4 ⁺ .
3091.1 3	1, 2, 3	130 fs +40-28	A	E g	XREF: g(3090).
3097.6 3				E g	XREF: g(3090).
3100.41 9				E gh K	XREF: g(3090).
				E gh K	XREF: g(3090)h(3060).
					J^π : D+Q γ to 2 ⁺ .

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Adopted Levels, Gammas (continued) ^{128}Te Levels (continued)

E(level)	J ^π	T _{1/2} [#]	XREF		Comments
3101.29 9		0.21 ps +20-8	E	g	XREF: g(3090).
3104.40? 17		113 fs +22-17	E	gh	XREF: g(3090)h(3060).
3125.40? 5			E	g	XREF: g(3090).
3135.80 23		0.24 ps +35-10	E		
3137.43 19	2 ⁺	121 fs +29-21	E	g K	XREF: g(3090)K(3137).
3140.10 20	2,3		A	E g	J ^π : E2 γ to 0 ⁺ . XREF: g(3090).
3146.4 9				E	J ^π : D+Q γ's to (3) ⁻ and 2 ⁺ .
3148.35 10		0.26 ps +12-6		E	
3151.11 11	(9 ⁻)		A	E H L O	XREF: H(3150).
3166.51 18	3 ⁻			E h J	J ^π : Q γ to (7) ⁻ , high spin ordering in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$. XREF: h(3150)J(3160).
3183.28 20	(5) ⁻ , (6) ⁺		A		J ^π : L(p,p')=3.
3184.84 13		51 fs 8		E h K	J ^π : γ's to 4 ⁺ and (7) ⁻ .
3188.2 4		0.10 ps +12-5		E	XREF: h(3150).
3195.6 11				E	
3199.1 17				E K	XREF: K(3210).
3216.59 19		76 fs +83-35		E	
3219.3 4				E	
3221.4 3				E	
3249.4 4				E k	XREF: k(3250).
3251.0 4				E k	XREF: k(3250).
3255.0 4				E k	XREF: k(3250).
3286.3 4				E K	XREF: K(3282).
3296.46? 8	(2 ⁺ , 3, 4 ⁺)			E jk	XREF: j(3330)k(3296).
3296.9 4				E jk	J ^π : γ's to 2 ⁺ and 4 ⁺ . XREF: j(3330)k(3296).
3303.8 4				E jk	XREF: j(3330)k(3296).
3327 4				K	E(level): from (p,t).
3345 5				jK	XREF: j(3330).
3384 5				K	E(level): from (p,t).
3407 5				K	E(level): from (p,t).
3416.30 16	-		A		J ^π : M1, E2 γ to 3 ⁻ , 4 ⁻ , 5 ⁻ , 6 ⁻ , 7 ⁻ .
3428.96 23			A		
3440 10				K	E(level): from (p,t).
3460 10				K	E(level): from (p,t).
3489.83 24			A	JK	XREF: J(3530)K(3480).
3508.1 [†] 4	(12 ⁺) [‡]			JKL NO	XREF: J(3530)K(3512).
3519.19 19			A	j	J ^π : Q (ΔJ=2) γ to 10 ⁺ , high spin ordering in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$. XREF: j(3530).
3570 10				jK	XREF: j(3530).
3587.8 3			A	k	E(level): from (p,t).
3597.09 18			A	k	XREF: k(3596).
3607.42? 11				E	XREF: k(3596).
3637.0 6					
3690 10				K	E(level): from (p,t).
3714.4 4	(11 ⁻)				J ^π : Q (ΔJ=2) γ to (9 ⁻), high spin ordering.
3731.72? 7				E	
3734.03 17			A		
3764 5				K	E(level): from (p,t).
3838.4? 5	(1, 2 ⁺)			E	J ^π : γ's to 0 ⁺ and 2 ⁺ .
4035.7 6				O	

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Adopted Levels, Gammas (continued) ^{128}Te Levels (continued)

E(level)	J^π	XREF	Comments	
4063.10? 17		E		
4171.5 6			0	
4265.2 6			0	
4341.7 [†] 4	(13 ⁻) [‡]	L	0	J^π : d ($\Delta J=1$) γ to (12 ⁺), high spin ordering in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
4431.2 5	(14 ⁺)	L	0	J^π : Q ($\Delta J=2$) γ to (12 ⁺), high spin ordering in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
4527.3 7			0	
4668.4 5	(14 ⁻)	L	0	J^π : d ($\Delta J=1$) γ to (12 ⁺), high spin ordering in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
4728.8 6	(15 ⁻)		0	J^π : Q ($\Delta J=2$) γ to (13 ⁻), high spin ordering in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
5077.5 9			0	
5435.8 6			0	
5447.7 7			0	
5544.8 10			0	
5946.5 8			0	
6211.8 10			0	
7726.8 6	1	I		Level excited by resonance fluorescence in $^{128}\text{Te}(\gamma, \gamma')$. J^π : from dipole excitation from 0 ⁺ .

[†] Band(A): yrast band.[‡] From systematics of the yrast band structure in ^{126}Te , ^{128}Te and ^{130}Te , unless otherwise noted.[#] From DSAM in (n,n' γ) unless otherwise noted.

Adopted Levels, Gammas (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{(128\text{Te})}_{@e}$	α^f	Comments
743.216	2 ⁺	743.22 2	100	0.0	0 ⁺	E2		0.00288	$\alpha(\text{K})_{\text{exp}}=0.00245$ $\alpha(\text{K})=0.00248$ 4; $\alpha(\text{L})=0.000322$ 5; $\alpha(\text{M})=6.44\times 10^{-5}$ 9; $\alpha(\text{N})=1.266\times 10^{-5}$ 18; $\alpha(\text{O})=1.347\times 10^{-6}$ 19 $\text{B}(\text{E}2)(\text{W.u.})=19.68$ 18 $\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h). $\alpha(\text{K})_{\text{exp}}=0.0025$ 3
1497.020	4 ⁺	753.82 2	100	743.216	2 ⁺	E2		0.00278	$\alpha(\text{K})=0.00239$ 4; $\alpha(\text{L})=0.000311$ 5; $\alpha(\text{M})=6.21\times 10^{-5}$ 9; $\alpha(\text{N})=1.221\times 10^{-5}$ 17; $\alpha(\text{O})=1.299\times 10^{-6}$ 19 $\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h).
1519.995	2 ⁺	776.75 2	100 2	743.216	2 ⁺	M1+E2	+4.7 2	0.00262	$\alpha(\text{K})=0.00225$ 4; $\alpha(\text{L})=0.000291$ 4; $\alpha(\text{M})=5.80\times 10^{-5}$ 9; $\alpha(\text{N})=1.142\times 10^{-5}$ 16; $\alpha(\text{O})=1.219\times 10^{-6}$ 17 $\text{B}(\text{E}2)(\text{W.u.})=28$ +7-14; $\text{B}(\text{M}1)(\text{W.u.})=0.0012$ +3-6 $\alpha(\text{K})=0.000529$ 8; $\alpha(\text{L})=6.42\times 10^{-5}$ 9; $\alpha(\text{M})=1.273\times 10^{-5}$ 18; $\alpha(\text{N})=2.52\times 10^{-6}$ 4; $\alpha(\text{O})=2.74\times 10^{-7}$ 4 $\text{B}(\text{E}2)(\text{W.u.})=0.032$ +8-16
		1520.02 5	3.13 23	0.0	0 ⁺	E2		6.96×10^{-4}	$\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h). $\alpha(\text{K})=0.00225$ 4; $\alpha(\text{L})=0.000291$ 4; $\alpha(\text{M})=5.80\times 10^{-5}$ 9; $\alpha(\text{N})=1.142\times 10^{-5}$ 16; $\alpha(\text{O})=1.219\times 10^{-6}$ 17 $\text{B}(\text{E}2)(\text{W.u.})=28$ +7-14; $\text{B}(\text{M}1)(\text{W.u.})=0.0012$ +3-6 $\alpha(\text{K})=0.000529$ 8; $\alpha(\text{L})=6.42\times 10^{-5}$ 9; $\alpha(\text{M})=1.273\times 10^{-5}$ 18; $\alpha(\text{N})=2.52\times 10^{-6}$ 4; $\alpha(\text{O})=2.74\times 10^{-7}$ 4 $\text{B}(\text{E}2)(\text{W.u.})=0.032$ +8-16
1811.13	6 ⁺	314.12 2	100	1497.020	4 ⁺	E2		0.0333	$\alpha(\text{K})_{\text{exp}}=0.032$ 5 $\alpha(\text{K})=0.0278$ 4; $\alpha(\text{L})=0.00442$ 7; $\alpha(\text{M})=0.000895$ 13; $\alpha(\text{N})=0.0001733$ 25; $\alpha(\text{O})=1.721\times 10^{-5}$ 24 $\text{B}(\text{E}2)(\text{W.u.})=9.7$ 6 $\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h).
1968.485	1 ⁺ , 2 ⁺ , 3 ⁺	448.8 3 1225.27 2	0.38 17 100 2	1519.995 743.216	2 ⁺ 2 ⁺	M1+E2	-0.210 11	1.16×10^{-3}	$\alpha(\text{K})=0.001001$ 14; $\alpha(\text{L})=0.0001210$ 17; $\alpha(\text{M})=2.40\times 10^{-5}$ 4; $\alpha(\text{N})=4.76\times 10^{-6}$ 7; $\alpha(\text{O})=5.22\times 10^{-7}$ 8 $\text{B}(\text{E}2)(\text{W.u.})=1.08$ +14-15; $\text{B}(\text{M}1)(\text{W.u.})=0.055$ 5
1978.80 2027.77	0 ⁺ 4 ⁺	1235.58 3 530.75 2	100 100 3	743.216 1497.020	2 ⁺ 4 ⁺	M1+E2	-0.24 2	0.00806	$\alpha(\text{K})=0.00698$ 10; $\alpha(\text{L})=0.000869$ 13; $\alpha(\text{M})=0.0001729$ 25; $\alpha(\text{N})=3.42\times 10^{-5}$ 5; $\alpha(\text{O})=3.73\times 10^{-6}$ 6 $\text{B}(\text{E}2)(\text{W.u.})=33$ +11-18; $\text{B}(\text{M}1)(\text{W.u.})=0.24$ +7-13 $\alpha(\text{K})=0.000739$ 11; $\alpha(\text{L})=9.06\times 10^{-5}$ 13; $\alpha(\text{M})=1.80\times 10^{-5}$ 3; $\alpha(\text{N})=3.56\times 10^{-6}$ 5; $\alpha(\text{O})=3.86\times 10^{-7}$ 6 $\text{B}(\text{E}2)(\text{W.u.})=4.0$ +11-21
2133.29	5 ⁻	322.3 ^{&} 2 636.26 2	8.3 ^a 28 100 ^a 6	1811.13 1497.020	6 ⁺ 4 ⁺	E1+M2	+0.020 6	1.54×10^{-3}	I_γ : other: 25 3 in $^{130}\text{Te}(^{64}\text{Ni}, \text{X})$. $\alpha(\text{K})_{\text{exp}}=0.0013$ 3 $\alpha(\text{K})=0.001343$ 19; $\alpha(\text{L})=0.0001622$ 24; $\alpha(\text{M})=3.21\times 10^{-5}$ 5; $\alpha(\text{N})=6.34\times 10^{-6}$ 9; $\alpha(\text{O})=6.87\times 10^{-7}$ 10 $\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h).
2163.542	3 ⁺	643.56 2	100 3	1519.995	2 ⁺	M1+E2	+3.8 4	0.00419	$\alpha(\text{K})=0.00360$ 6; $\alpha(\text{L})=0.000477$ 7; $\alpha(\text{M})=9.53\times 10^{-5}$

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)

<u>E_i(level)</u>	<u>J_i^{π}</u>	<u>E_{γ}^{$\dagger$}</u>	<u>I_{γ}^{$\dagger$}</u>	<u>E_f</u>	<u>J_f^{π}</u>	<u>Mult.[@]</u>	<u>$\delta^{\text{@e}}$</u>	<u>α^f</u>	<u>Comments</u>
									14; $\alpha(\text{N})=1.87\times 10^{-5}$ 3; $\alpha(\text{O})=1.98\times 10^{-6}$ 3 B(E2)(W.u.)=92 +17-26; B(M1)(W.u.)=0.0039 +11-14 $\alpha(\text{K})=0.00386$ 10; $\alpha(\text{L})=0.000482$ 10; $\alpha(\text{M})=9.60\times 10^{-5}$ 19; $\alpha(\text{N})=1.90\times 10^{-5}$ 4; $\alpha(\text{O})=2.06\times 10^{-6}$ 5 B(E2)(W.u.)=13 +5-6; B(M1)(W.u.)=0.024 +6-8
2163.542	3 ⁺	666.48 6	59 3	1497.020	4 ⁺	M1+E2	+0.59 +14-12	0.00446 11	$\alpha(\text{K})=0.000712$ 10; $\alpha(\text{L})=8.58\times 10^{-5}$ 12; $\alpha(\text{M})=1.702\times 10^{-5}$ 24; $\alpha(\text{N})=3.37\times 10^{-6}$ 5; $\alpha(\text{O})=3.70\times 10^{-7}$ 6 B(E2)(W.u.)=0.22 +5-7; B(M1)(W.u.)=0.0038 +7-11
		1420.30 3	79 4	743.216	2 ⁺	M1+E2	+0.419 11	8.69 $\times 10^{-4}$	$\alpha(\text{K})=0.000697$ 10; $\alpha(\text{L})=8.38\times 10^{-5}$ 12; $\alpha(\text{M})=1.663\times 10^{-5}$ 24; $\alpha(\text{N})=3.30\times 10^{-6}$ 5; $\alpha(\text{O})=3.62\times 10^{-7}$ 5 B(E2)(W.u.)=0.55 13; B(M1)(W.u.)=0.128 7 $\alpha(\text{K})=0.000267$ 4; $\alpha(\text{L})=3.18\times 10^{-5}$ 5; $\alpha(\text{M})=6.30\times 10^{-6}$ 9; $\alpha(\text{N})=1.247\times 10^{-6}$ 18; $\alpha(\text{O})=1.366\times 10^{-7}$ 20 B(E2)(W.u.)=0.58 5
2193.48	2 ⁺	1450.28 3	100 3	743.216	2 ⁺	M1+E2	-0.116 13	8.61 $\times 10^{-4}$	
		2193.42 6	11.1 8	0.0	0 ⁺	E2		6.98 $\times 10^{-4}$	
2217.95	1 ⁺ ,2 ⁺ ,3 ⁺	249.24 9 697.97 6 1474.76 3	7.5 15 9.7 15 100 3	1968.485 1519.995 743.216	1 ⁺ ,2 ⁺ ,3 ⁺ 2 ⁺ 2 ⁺	M1+E2	+0.16 16	8.39 $\times 10^{-4}$ 15	$\alpha(\text{K})=0.000671$ 13; $\alpha(\text{L})=8.07\times 10^{-5}$ 15; $\alpha(\text{M})=1.60\times 10^{-5}$ 3; $\alpha(\text{N})=3.17\times 10^{-6}$ 6; $\alpha(\text{O})=3.48\times 10^{-7}$ 7 B(E2)(W.u.)=0.1 +3-1; B(M1)(W.u.)=0.014 +18-14
2270.33	3 ⁺ ,4 ⁺ ,5 ⁺	2217.68 13 773.31 2	4.7 10 100	0.0 1497.020	0 ⁺ 4 ⁺	M1+E2	+0.25 +15-8	0.00327 8	$\alpha(\text{K})=0.00283$ 7; $\alpha(\text{L})=0.000348$ 7; $\alpha(\text{M})=6.91\times 10^{-5}$ 14; $\alpha(\text{N})=1.37\times 10^{-5}$ 3; $\alpha(\text{O})=1.50\times 10^{-6}$ 4 B(E2)(W.u.)=18 +20-18; B(M1)(W.u.)=0.25 +4-5
2308.30	0 ⁺	788.29 8 1565.08 4	39 4 100 6	1519.995 743.216	2 ⁺ 2 ⁺				
2337.68	(7) ⁻	204.4 ^{&} 10 526.57 4	2.2 ^a 5 100 ^a 5	2133.29 1811.13	5 ⁻ 6 ⁺	E1+M2	+0.025 28	0.00237 7	$\alpha(\text{K})_{\text{exp}}=0.0019$ 4 $\alpha(\text{K})=0.00206$ 6; $\alpha(\text{L})=0.000250$ 7; $\alpha(\text{M})=4.96\times 10^{-5}$ 15; $\alpha(\text{N})=9.8\times 10^{-6}$ 3; $\alpha(\text{O})=1.06\times 10^{-6}$ 3

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
2352.11	2 ⁺	1608.88 3	100 3	743.216	2 ⁺	M1+E2	-0.230 14	7.55×10 ⁻⁴	B(E1)(W.u.)=7.4×10 ⁻⁷ 6; B(M2)(W.u.)=0.008 +17-8 $\alpha(\text{K})_{\text{exp}}$: from ¹²⁸ Sb β^- decay (9.05 h). $\alpha(\text{K})=0.000555$ 8; $\alpha(\text{L})=6.66\times 10^{-5}$ 10; $\alpha(\text{M})=1.321\times 10^{-5}$ 19; $\alpha(\text{N})=2.62\times 10^{-6}$ 4; $\alpha(\text{O})=2.88\times 10^{-7}$ 4 B(E2)(W.u.)=0.43 +6-7; B(M1)(W.u.)=0.0313 +21-27
		2352.08 8	17.1 17	0.0	0 ⁺	E2		7.38×10 ⁻⁴	$\alpha(\text{K})=0.000236$ 4; $\alpha(\text{L})=2.80\times 10^{-5}$ 4; $\alpha(\text{M})=5.54\times 10^{-6}$ 8; $\alpha(\text{N})=1.098\times 10^{-6}$ 16; $\alpha(\text{O})=1.203\times 10^{-7}$ 17
2395.92	4 ⁻	232.43 9	2.2 4	2163.542	3 ⁺	E1+M2	-0.15 +10-12	0.026 15	B(E2)(W.u.)=0.22 3 $\alpha(\text{K})=0.022$ 13; $\alpha(\text{L})=0.0030$ 20; $\alpha(\text{M})=0.0006$ 4; $\alpha(\text{N})=0.00012$ 8; $\alpha(\text{O})=1.2\times 10^{-5}$ 9
		262.63 2	100 3	2133.29	5 ⁻	M1+E2	+0.263 19	0.0491	$\alpha(\text{K})=0.0422$ 6; $\alpha(\text{L})=0.00549$ 9; $\alpha(\text{M})=0.001097$ 17; $\alpha(\text{N})=0.000217$ 4; $\alpha(\text{O})=2.33\times 10^{-5}$ 4
		368.16 8	7.3 12	2027.77	4 ⁺	E1+M2	-0.12 11	0.007 3	$\alpha(\text{K})=0.0057$ 23; $\alpha(\text{L})=0.0007$ 4; $\alpha(\text{M})=0.00014$ 7
2405.30	(4 ⁺ ,5,6 ⁺)	593.5 3	100 ^a 15	1811.13	6 ⁺				
		908.32 8	71 ^a 9	1497.020	4 ⁺				
2426.00	3 ⁺ ,4 ⁺ ,5 ⁺	398.31 8	22 3	2027.77	4 ⁺	M1+E2	+1.18 20	0.01615 24	$\alpha(\text{K})=0.01378$ 22; $\alpha(\text{L})=0.00190$ 4; $\alpha(\text{M})=0.000381$ 7; $\alpha(\text{N})=7.48\times 10^{-5}$ 13; $\alpha(\text{O})=7.82\times 10^{-6}$ 12
		928.97 3	100 4	1497.020	4 ⁺	M1+E2	-0.147 17	0.00215	B(E2)(W.u.)=1.8×10 ³ +4-5; B(M1)(W.u.)=0.30 +8-9 $\alpha(\text{K})=0.00187$ 3; $\alpha(\text{L})=0.000228$ 4; $\alpha(\text{M})=4.52\times 10^{-5}$ 7; $\alpha(\text{N})=8.96\times 10^{-6}$ 13; $\alpha(\text{O})=9.82\times 10^{-7}$ 14
2.44×10 ³	3 ⁻	1700 30	100	743.216	2 ⁺				B(E2)(W.u.)=4.3 +11-12; B(M1)(W.u.)=0.26 +3-4 E_γ : from Coulomb excitation.
2456.75		323.46 21	100	2133.29	5 ⁻				
2482.22		1738.99 7	100	743.216	2 ⁺				
2487.44	3 ⁺	967.40 14	44 4	1519.995	2 ⁺				
		990.45 ^b 4	100 8	1497.020	4 ⁺	M1+E2	+0.43 +25-24	0.00181 7	$\alpha(\text{K})=0.00157$ 6; $\alpha(\text{L})=0.000192$ 7; $\alpha(\text{M})=3.80\times 10^{-5}$ 13; $\alpha(\text{N})=7.5\times 10^{-6}$ 3; $\alpha(\text{O})=8.2\times 10^{-7}$ 3
		1744.18 4	97 5	743.216	2 ⁺	M1+E2	+0.268 21	7.10×10 ⁻⁴	B(E2)(W.u.)=3 +4-3; B(M1)(W.u.)=0.025 +8-10 $\alpha(\text{K})=0.000468$ 7; $\alpha(\text{L})=5.60\times 10^{-5}$ 8;

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
									$\alpha(\text{M})=1.110\times 10^{-5}$ 16; $\alpha(\text{N})=2.20\times 10^{-6}$ 3; $\alpha(\text{O})=2.42\times 10^{-7}$ 4 B(E2)(W.u.)=0.077 +21-30; B(M1)(W.u.)=0.0049 +12-17
2494.20	(3) ⁻	526.25 13 974.21 28 1750.94 3	3.5 4 5.06 25 100 3	1968.485 1519.995 743.216	1 ⁺ ,2 ⁺ ,3 ⁺ 2 ⁺ 2 ⁺	E1+M2	+0.029 10	6.47×10 ⁻⁴	$\alpha(\text{K})=0.000201$ 3; $\alpha(\text{L})=2.37\times 10^{-5}$ 4; $\alpha(\text{M})=4.68\times 10^{-6}$ 7; $\alpha(\text{N})=9.26\times 10^{-7}$ 14; $\alpha(\text{O})=1.015\times 10^{-7}$ 15 B(E1)(W.u.)=0.000193 +19-25; B(M2)(W.u.)=0.24 17
2508.06	2 ⁺	1764.83 4	100 4	743.216	2 ⁺	M1+E2	+1.8 3	6.61×10 ⁻⁴ 11	$\alpha(\text{K})=0.000413$ 8; $\alpha(\text{L})=4.96\times 10^{-5}$ 9; $\alpha(\text{M})=9.82\times 10^{-6}$ 18; $\alpha(\text{N})=1.95\times 10^{-6}$ 4; $\alpha(\text{O})=2.13\times 10^{-7}$ 4 B(E2)(W.u.)=1.32 +22-25; B(M1)(W.u.)=0.0019 6
		2508.04 6	35 3	0.0	0 ⁺	E2		7.84×10 ⁻⁴	$\alpha(\text{K})=0.000210$ 3; $\alpha(\text{L})=2.49\times 10^{-5}$ 4; $\alpha(\text{M})=4.94\times 10^{-6}$ 7; $\alpha(\text{N})=9.78\times 10^{-7}$ 14; $\alpha(\text{O})=1.073\times 10^{-7}$ 15 B(E2)(W.u.)=0.104 +18-20
2516.64		996.64 6	100	1519.995	2 ⁺				
2550.52?	3 ⁺	1030.40 15	26 3	1519.995	2 ⁺	M1+E2	>5	1.36×10 ⁻³ 2	$\alpha(\text{K})=0.001178$ 18; $\alpha(\text{L})=0.0001473$ 22; $\alpha(\text{M})=2.93\times 10^{-5}$ 5; $\alpha(\text{N})=5.78\times 10^{-6}$ 9; $\alpha(\text{O})=6.24\times 10^{-7}$ 10 B(E2)(W.u.)>11; B(M1)(W.u.)<0.00070
		1053.50 3	100 4	1497.020	4 ⁺	M1+E2	+0.03 6	1.63×10 ⁻³	$\alpha(\text{K})=0.001413$ 20; $\alpha(\text{L})=0.0001713$ 24; $\alpha(\text{M})=3.40\times 10^{-5}$ 5; $\alpha(\text{N})=6.74\times 10^{-6}$ 10 $\alpha(\text{O})=7.39\times 10^{-7}$ 11 B(E2)(W.u.)=0.04 +15-4; B(M1)(W.u.)=0.065 +12-15
		1807.30 6	34 3	743.216	2 ⁺	M1+E2	-0.03 +12-13	7.04×10 ⁻⁴	$\alpha(\text{K})=0.000438$ 7; $\alpha(\text{L})=5.24\times 10^{-5}$ 8; $\alpha(\text{M})=1.038\times 10^{-5}$ 15; $\alpha(\text{N})=2.06\times 10^{-6}$ 3; $\alpha(\text{O})=2.26\times 10^{-7}$ 4 B(E2)(W.u.)=0.001 +7-1; B(M1)(W.u.)=0.0044 +9-11 $\delta=-0.06$ 5 or -3.2 +5-7.
2571.17	4,5	175.27 4 437.86 4 760.16 12 1074.14 10	42 6 100 8 7.9 23 15 3	2395.92 2133.29 1811.13 1497.020	4 ⁻ 5 ⁻ 6 ⁺ 4 ⁺	D+Q D+Q	+0.06 +7-15 -0.40 +11-7	0.0126 6	$\alpha(\text{K})=0.0108$ 6; $\alpha(\text{L})=0.00144$ 2; $\alpha(\text{M})=0.00029$ 1
2587.14		249.9 6 453.78 23		2337.68 2133.29	(7) ⁻ 5 ⁻				
2598.99		193.5 ^b 7	14 ^c 7	2405.30	(4 ⁺ ,5,6 ⁺)	(D,E2)			

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
2598.99		787.86 4	100 ^c 14	1811.13	6 ⁺	M1+E2			
		1101.8 ^b 8	5.4 ^c 27	1497.020	4 ⁺				
2630.14	1 ⁺ ,2 ⁺ ,3 ⁺	1132.90 18	8.1 20	1497.020	4 ⁺				
		1886.92 4	100 5	743.216	2 ⁺	M1+E2	+1.91 11	6.59×10 ⁻⁴	$\alpha(\text{K})=0.000362$ 6; $\alpha(\text{L})=4.33\times 10^{-5}$ 7; $\alpha(\text{M})=8.59\times 10^{-6}$ 13; $\alpha(\text{N})=1.701\times 10^{-6}$ 25; $\alpha(\text{O})=1.86\times 10^{-7}$ 3 B(E2)(W.u.)=4.7 6; B(M1)(W.u.)=0.0069 11
2643.28		1900.05 6	100	743.216	2 ⁺				
2655.10		249.7 ^{&g} 2	40 ^a 7	2405.30	(4 ⁺ ,5,6 ⁺)				E_γ : not reported in ^{128}Sb β^- decay (10 min).
		843.9 5	100 ^c 16	1811.13	6 ⁺				E_γ : not reported in ^{128}Sb β^- decay (9.01 h).
		1158.3 5	79 ^a 16	1497.020	4 ⁺				
		532.02 10	100	2133.29	5 ⁻				
2665.31		283.7 ^{&} 3	2.5 ^a 3	2405.30	(4 ⁺ ,5,6 ⁺)				
2688.99	(8 ⁺)	878.0 ^{&} 4	100 ^a 8	1811.13	6 ⁺	Q			
2701.0		567.67 32	100	2133.29	5 ⁻	D+Q	+0.19 -57+35		Mult.: from $\gamma\gamma(\theta)$ in ^{238}U (^{12}C ,F γ).
2706.65	1 ⁺ ,2 ⁺ ,3 ⁺	1186.7 2	9 3	1519.995	2 ⁺				
		1963.42 4	100 5	743.216	2 ⁺	M1+E2	+1.4 +127-9	6.70×10 ⁻⁴ 22	$\alpha(\text{K})=0.000341$ 20; $\alpha(\text{L})=4.07\times 10^{-5}$ 24; $\alpha(\text{M})=8.1\times 10^{-6}$ 5; $\alpha(\text{N})=1.60\times 10^{-6}$ 10; $\alpha(\text{O})=1.75\times 10^{-7}$ 11 B(E2)(W.u.)=3 +20-3; B(M1)(W.u.)=0.009 +111-9
2712.23?	1 ⁺ ,2 ⁺ ,3 ⁺	2706.5 3	24 4	0.0	0 ⁺				
		1192.2 2	11.1 24	1519.995	2 ⁺				
		1969.00 4	<100	743.216	2 ⁺	M1+E2	-0.9 +11-67	6.80×10 ⁻⁴ 25	$\alpha(\text{K})=0.000348$ 23; $\alpha(\text{L})=4.2\times 10^{-5}$ 3; $\alpha(\text{M})=8.2\times 10^{-6}$ 6; $\alpha(\text{N})=1.63\times 10^{-6}$ 11; $\alpha(\text{O})=1.79\times 10^{-7}$ 13 B(E2)(W.u.)=1.0 +19-10; B(M1)(W.u.)=0.007 +12-7
2718.80		2712.2 6	8.2 22	0.0	0 ⁺				
		691.70 71		2027.77	4 ⁺				
		1221.75 12		1497.020	4 ⁺				
2736.25		602.95 13	100	2133.29	5 ⁻				
2748.66	3 ⁺	555.24 8	9 3	2193.48	2 ⁺	D+Q	+0.06 +7-6		
		780.24 7	63 7	1968.485	1 ⁺ ,2 ⁺ ,3 ⁺	M1+E2	-0.29 +13-18	0.00319 9	$\alpha(\text{K})=0.00276$ 8; $\alpha(\text{L})=0.000339$ 8; $\alpha(\text{M})=6.74\times 10^{-5}$ 16; $\alpha(\text{N})=1.34\times 10^{-5}$ 3; $\alpha(\text{O})=1.46\times 10^{-6}$ 4 B(E2)(W.u.)=1.1 +10-11; B(M1)(W.u.)=0.012 +4-9
		1228.02 10	100 10	1519.995	2 ⁺	M1+E2	-0.03 +9-10	1.16×10 ⁻³	$\alpha(\text{K})=0.001004$ 15; $\alpha(\text{L})=0.0001212$ 18;

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
2748.66	3 ⁺	1251.81 8	59 7	1497.020	4 ⁺	M1+E2	-0.03 19	1.12×10 ⁻³ 2	$\alpha(\text{M})=2.41\times 10^{-5}$ 4; $\alpha(\text{N})=4.77\times 10^{-6}$ 7; $\alpha(\text{O})=5.23\times 10^{-7}$ 8 B(E2)(W.u.)=0.002 +13-2; B(M1)(W.u.)=0.0053 +17-40 $\alpha(\text{K})=0.000963$ 16; $\alpha(\text{L})=0.0001162$ 19; $\alpha(\text{M})=2.31\times 10^{-5}$ 4; $\alpha(\text{N})=4.57\times 10^{-6}$ 8; $\alpha(\text{O})=5.01\times 10^{-7}$ 9 B(E2)(W.u.)=0.001 +15-1; B(M1)(W.u.)=0.0029 +10-23 $\alpha(\text{K})=0.000353$ 6; $\alpha(\text{L})=4.21\times 10^{-5}$ 6; $\alpha(\text{M})=8.35\times 10^{-6}$ 12; $\alpha(\text{N})=1.655\times 10^{-6}$ 24; $\alpha(\text{O})=1.82\times 10^{-7}$ 3 B(E2)(W.u.)=0.0002 +17-2; B(M1)(W.u.)=0.0010 +4-8
2749.57	3 ⁻ , 4 ⁻ , 5 ⁻ , 6 ⁻ , 7 ⁻	353.65 21	100	2395.92	4 ⁻	D+Q	+0.06 +7-6		
2762.03		357.2 4	4.8 ^a 10	2405.30	(4 ⁺ , 5, 6 ⁺)				
		628.75 9	100 ^a 6	2133.29	5 ⁻	M1,E2		0.0049 5	$\alpha(\text{K})_{\text{exp}}=0.0045$ 1 $\alpha(\text{K})=0.0042$ 5; $\alpha(\text{L})=0.00054$ 4; $\alpha(\text{M})=0.000108$ 8; $\alpha(\text{N})=2.12\times 10^{-5}$ 15; $\alpha(\text{O})=2.28\times 10^{-6}$ 21 $\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h). Mult.: from $\alpha(\text{K})_{\text{exp}}$.
2763.96		1243.96 13	19.6 16	1519.995	2 ⁺				
		2020.73 17	3.6 14	743.216	2 ⁺				
		2763.96 35	100.0 20	0.0	0 ⁺				
2776.86		380.66 23		2395.92	4 ⁻				
		643.58 5		2133.29	5 ⁻				
2790.8	(10 ⁺)	101.9 [#] 3	100	2688.99	(8 ⁺)	E2		1.59 3	$\alpha(\text{exp})=1.7$ 2 $\alpha(\text{K})=1.116$ 19; $\alpha(\text{L})=0.380$ 8; $\alpha(\text{M})=0.0793$ 16; $\alpha(\text{N})=0.0149$ 3; $\alpha(\text{O})=0.001262$ 24 B(E2)(W.u.)=1.40 12 $\alpha(\text{exp})$: from $^{130}\text{Te}(^{64}\text{Ni}, \text{X})$. Mult.: from $\alpha(\text{exp})$.
2817.18	(1, 2 ⁺)	683.9 ^{&} 3	100 ^a	2133.29	5 ⁻				
2820.71		852.26 11	45 10	1968.485	1 ⁺ , 2 ⁺ , 3 ⁺				
		1300.45 11	42 5	1519.995	2 ⁺				
		2077.53 6	100 10	743.216	2 ⁺				
		2821.0 4	41 8	0.0	0 ⁺				
2830.66		802.82 10	95.3 19	2027.77	4 ⁺	D+Q	0.0 +18-3		
		2087.62 17	100.0 19	743.216	2 ⁺				
2851.90	(4 ⁺ , 5, 6 ⁺)	1040.73 6	100 13	1811.13	6 ⁺				

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
2851.90	(4 ⁺ ,5,6 ⁺)	1354.95 9	43 9	1497.020	4 ⁺				
2858.6		1047.5& 4	100 ^a	1811.13	6 ⁺				E_γ : other: 563.3 3 in $^{130}\text{Te}(^{64}\text{Ni},\text{X})$.
2861.92		728.63 17		2133.29	5 ⁻	D+Q	-1.7 +7-9		
2869.00?	(1,2 ⁺)	675.8 5		2193.48	2 ⁺				
		890.24 26	23 5	1978.80	0 ⁺				
		900.48 13	23 5	1968.485	1 ⁺ ,2 ⁺ ,3 ⁺	D+Q	-0.5 +4-29		
		1349.10 13	52 14	1519.995	2 ⁺				
		2125.59 17	49 13	743.216	2 ⁺				
		2869.0 3	100 19	0.0	0 ⁺				
2884.51	1 ⁺ ,2 ⁺ ,3 ⁺	1364.68 15	20 6	1519.995	2 ⁺	M1+E2	-0.8 +5-12	0.00089 7	$\alpha(\text{K})=0.00074$ 6; $\alpha(\text{L})=9.0\times 10^{-5}$ 7; $\alpha(\text{M})=1.78\times 10^{-5}$ 14; $\alpha(\text{N})=3.5\times 10^{-6}$ 3; $\alpha(\text{O})=3.9\times 10^{-7}$ 3 B(E2)(W.u.)=0.5 5; B(M1)(W.u.)=0.0023 14 $\alpha(\text{K})=0.000283$ 25; $\alpha(\text{L})=3.4\times 10^{-5}$ 3; $\alpha(\text{M})=6.7\times 10^{-6}$ 6; $\alpha(\text{N})=1.32\times 10^{-6}$ 12; $\alpha(\text{O})=1.45\times 10^{-7}$ 14 B(E2)(W.u.)=0.60 21; B(M1)(W.u.)=0.0007 +13-7
		2141.25 6	100 11	743.216	2 ⁺	M1+E2	-2.5 +27-20	0.00069 3	
2885.01	5	1074.30 22	48.1 20	1811.13	6 ⁺	D+Q	-8 +5-19		
		1387.76 16	100.0 20	1497.020	4 ⁺	D+Q	-0.13 +10-9		
2891.46	2 ⁺	1371.55 13	10 3	1519.995	2 ⁺				
		1394.45 34	8 5	1497.020	4 ⁺				
		2148.22 15	21 5	743.216	2 ⁺	M1+E2	-0.94 +60-69	7.04×10 ⁻⁴ 15	$\alpha(\text{K})=0.000293$ 12; $\alpha(\text{L})=3.49\times 10^{-5}$ 14; $\alpha(\text{M})=6.9\times 10^{-6}$ 3; $\alpha(\text{N})=1.37\times 10^{-6}$ 6; $\alpha(\text{O})=1.50\times 10^{-7}$ 7 B(E2)(W.u.)=0.12 9; B(M1)(W.u.)=0.0010 7 $\alpha(\text{K})=0.0001645$ 23; $\alpha(\text{L})=1.94\times 10^{-5}$ 3; $\alpha(\text{M})=3.84\times 10^{-6}$ 6; $\alpha(\text{N})=7.61\times 10^{-7}$ 11; $\alpha(\text{O})=8.36\times 10^{-8}$ 12 B(E2)(W.u.)=0.28 +5-6
		2891.34 12	100 8	0.0	0 ⁺	E2		9.05×10 ⁻⁴	
2901.0		563.3# 3	100	2337.68	(7) ⁻				
2904.42		876.62 12	100 3	2027.77	4 ⁺	D+Q	+1.44 25		
		1384.46 25	89 3	1519.995	2 ⁺				
		2161.36 44	27 3	743.216	2 ⁺				
2912.78		719.5 3	43 10	2193.48	2 ⁺				
		1393.0 5	2.6 7	1519.995	2 ⁺				
		2169.53 6	100 10	743.216	2 ⁺				
2921.55		1401.55 14	100 6	1519.995	2 ⁺				
		2178.5 24	18 6	743.216	2 ⁺				
2923.82		1112.7& 4	100 ^a	1811.13	6 ⁺				
2931.86?	3 ⁺ ,4 ⁺ ,5 ⁺	1434.83 4	100	1497.020	4 ⁺	M1+E2	+4.0 3	7.48×10 ⁻⁴	$\alpha(\text{K})=0.000599$ 9; $\alpha(\text{L})=7.29\times 10^{-5}$ 11;

Adopted Levels, Gammas (continued)

 $\gamma(^{128}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
									$\alpha(\text{M})=1.446\times 10^{-5} \ 21$; $\alpha(\text{N})=2.86\times 10^{-6} \ 4$; $\alpha(\text{O})=3.11\times 10^{-7} \ 5$
2952.6		1141.5 [#] 17	100	1811.13	6 ⁺				
2954.87		1434.85 6	100.0 15	1519.995	2 ⁺				
		2211.71 15	48.1 15	743.216	2 ⁺	D+Q	+0.8 +22-3		
2966.9	(8 ⁻)	629.2 4		2337.68	(7) ⁻	D			Mult.: from $\gamma\gamma(\theta)$ $\Delta J=1$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
2969.0		1157.82 25		1811.13	6 ⁺				
2983.31?	3 ⁺	1463.32 7	<82	1519.995	2 ⁺	M1+E2	-0.8 +4-7	0.00080 4	$\alpha(\text{K})=0.00064 \ 4$; $\alpha(\text{L})=7.7\times 10^{-5} \ 5$; $\alpha(\text{M})=1.53\times 10^{-5} \ 9$; $\alpha(\text{N})=3.04\times 10^{-6} \ 17$; $\alpha(\text{O})=3.32\times 10^{-7} \ 19$
		1486.28 7	<100	1497.020	4 ⁺	M1+E2	-0.9 +8-7	0.00078 6	$\text{B}(\text{E}2)(\text{W.u.})=3 \ +4-3$; $\text{B}(\text{M}1)(\text{W.u.})=0.014 \ +17-14$ $\alpha(\text{K})=0.00061 \ 5$; $\alpha(\text{L})=7.4\times 10^{-5} \ 6$; $\alpha(\text{M})=1.47\times 10^{-5} \ 11$; $\alpha(\text{N})=2.91\times 10^{-6} \ 23$; $\alpha(\text{O})=3.2\times 10^{-7} \ 3$ $\text{B}(\text{E}2)(\text{W.u.})=4 \ +6-4$; $\text{B}(\text{M}1)(\text{W.u.})=0.015 \ +21-15$
		2240.0 3	23 6	743.216	2 ⁺				
2985.53		589.61 9	100	2395.92	4 ⁻				
2997.49		1477.15 25	90 3	1519.995	2 ⁺				
		2997.65 19	100 3	0.0	0 ⁺				
2997.8		1186.7 3	100	1811.13	6 ⁺				
3030.11	1,2 ⁺	836.2 5	12 4	2193.48	2 ⁺				
		2286.88 8	100 14	743.216	2 ⁺	D+Q	-1.6 +9-46		
		3030.1 4	45 10	0.0	0 ⁺				
3030.53		692.9 ^{&} 3	100 ^a	2337.68	(7) ⁻				
3038.73		467.71 23	100.0 25	2571.17	4,5	D+Q	-0.9 +4-8		
		905.37 15	89.8 25	2133.29	5 ⁻	D+Q	-0.7 +3-4		
3048.45		1551.42 17	100	1497.020	4 ⁺				
3054.50		1534.48 12	100.0 17	1519.995	2 ⁺				
		2311.3 2	55.8 17	743.216	2 ⁺				
3067.15	3	873.24 20		2193.48	2 ⁺	D+Q	-0.09 +18-23		
		1099.3 2		1968.485	1 ⁺ ,2 ⁺ ,3 ⁺				
		1547.04 12	54 10	1519.995	2 ⁺	D+Q	+0.09 +17-15		
		1570.61 18	85 11	1497.020	4 ⁺	D+Q	-0.4 +3-48		
		2323.80 9	100 19	743.216	2 ⁺	D+Q	+0.32 +26-22		
3071.60		1551.42 20	4.0 16	1519.995	2 ⁺				
		1574.63 15	100 3	1497.020	4 ⁺	D+Q	-3 +2-90		
		2328.5 3	57.5 24	743.216	2 ⁺				
3091.1		957.8 3	100	2133.29	5 ⁻				
3097.6		1600.6 3	100	1497.020	4 ⁺				
3100.41	1,2,3	1580.37 12	88 18	1519.995	2 ⁺	D+Q	-4 +2-12		
		2357.22 13	100 18	743.216	2 ⁺	D+Q	+1.3 +14-7		
3101.29		908.03 13	100 4	2193.48	2 ⁺				
		1132.63 11	19 4	1968.485	1 ⁺ ,2 ⁺ ,3 ⁺				
3104.40?		3104.36 17	100	0.0	0 ⁺				

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)									
$E_i(\text{level})$	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
3125.40?		1097.62 6	88 19	2027.77	4 ⁺				
		1628.39 8	100 13	1497.020	4 ⁺				
3135.80		1638.77 23	100 3	1497.020	4 ⁺	D+Q	+0.43 +58-40		
		2391.3 41	43 3	743.216	2 ⁺				
3137.43	2 ⁺	1617.9 4		1519.995	2 ⁺				
		2393.8 3	70 13	743.216	2 ⁺				
		3137.5 3	100 18	0.0	0 ⁺	E2		9.87×10 ⁻⁴	$\alpha(\text{K})=0.0001432$ 20; $\alpha(\text{L})=1.686\times 10^{-5}$ 24; $\alpha(\text{M})=3.34\times 10^{-6}$ 5; $\alpha(\text{N})=6.61\times 10^{-7}$ 10 $\alpha(\text{O})=7.26\times 10^{-8}$ 11 B(E2)(W.u.)=0.24 +7-8
3140.10	2,3	645.8 & 3		2494.20	(3) ⁻	D+Q	+0.6 +24-9		
		802.7 3	92 5	2337.68	(7) ⁻				
		946.1 5	62.4 5	2193.48	2 ⁺	D+Q	+0.03 +48-54		
		1171.2 26	100 5	1968.485	1 ⁺ , 2 ⁺ , 3 ⁺	D+Q	-1.5 +15-24		
		2397.3 55	20.9 19	743.216	2 ⁺				
3146.4		1118.6 9	100	2027.77	4 ⁺				
3148.35		1628.25 11	100.0 11	1519.995	2 ⁺				
		2405.37 19	31.6 11	743.216	2 ⁺				
3151.11	(9) ⁻	227.3 & g 2	11.5 a 23	2923.82					E_γ : observed only in ^{128}Sb β^- decay (9.05 h), non-observation in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
		813.6 & 2	100 a 15	2337.68	(7) ⁻	Q		9.18×10 ⁻⁴	$\alpha(\text{K})_{\text{exp}}=0.0009$ 3 $\alpha(\text{K})=0.000799$ 12; $\alpha(\text{L})=9.57\times 10^{-5}$ 14; $\alpha(\text{M})=1.90\times 10^{-5}$ 3; $\alpha(\text{N})=3.75\times 10^{-6}$ 6; $\alpha(\text{O})=4.07\times 10^{-7}$ 6 $\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h). Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$, $\alpha(\text{K})_{\text{exp}}$ suggest E1.
		1339.8 & g 4	8 a 8	1811.13	6 ⁺				E_γ : observed only in ^{128}Sb β^- decay (9.05 h), non-observation in $^{238}\text{U}(^{12}\text{C}, \text{F}\gamma)$.
3166.51	3 ⁻	2407.60 g 19		743.216	2 ⁺				E_γ : observed only in (n,n' γ) in 2012Hi10.
		1033.4 3		2133.29	5 ⁻				
		1138.63 22		2027.77	4 ⁺				
3183.28	(5) ⁻ , (6) ⁺	152.6 & 3	20 a 4	3030.53					
		366.1 & 3	60 a 12	2817.18					
		845.8 & 4	100 a 12	2337.68	(7) ⁻				
		1685.7 & 5	20 a 4	1497.020	4 ⁺				
3184.84		2441.5 8		743.216	2 ⁺				
		3184.80 13	100	0.0	0 ⁺				
3188.2		2445.0 4	100	743.216	2 ⁺	D+Q	-1.7 +17-28		
3195.6		1698.6 11	100	1497.020	4 ⁺				
3199.1		1702.1 17	100	1497.020	4 ⁺				

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)									
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @	$\delta^{@e}$	α^f	Comments
3216.59		820.57 20	100 3	2395.92	4 ⁻	D+Q	+1.1 +34-7		
		1697.2 5	64 5	1519.995	2 ⁺				
3219.3		2476.1 4	100	743.216	2 ⁺				
3221.4		1701.2 13		1519.995	2 ⁺				
		1724.4 3		1497.020	4 ⁺				
3249.4		1729.4 4	100	1519.995	2 ⁺				
3251.0		1731.0 4	100	1519.995	2 ⁺				
3255.0		1735.0 4	100	1519.995	2 ⁺				
3286.3		1766.3 4	100	1519.995	2 ⁺				
3296.46?	(2 ⁺ ,3,4 ⁺)	1799.41 9	100 18	1497.020	4 ⁺				
		2553.3 2	47 12	743.216	2 ⁺				
3296.9		1776.9 4	100	1519.995	2 ⁺				
3303.8		1783.8 4	100	1519.995	2 ⁺				
3416.30	-	654.2& 2	100 ^a 6	2762.03	3 ⁻ ,4 ⁻ ,5 ⁻ ,6 ⁻ ,7 ⁻	M1,E2		0.0044 5	$\alpha(\text{K})_{\text{exp}}=0.0054$ 15 $\alpha(\text{K})=0.0038$ 5; $\alpha(\text{L})=0.00049$ 4; $\alpha(\text{M})=9.7\times 10^{-5}$ 7; $\alpha(\text{N})=1.92\times 10^{-5}$ 15; $\alpha(\text{O})=2.06\times 10^{-6}$ 20 $\alpha(\text{K})_{\text{exp}}$: from ^{128}Sb β^- decay (9.05 h). Mult.: from $\alpha(\text{K})_{\text{exp}}$.
		1078.6& 4	12 ^a 6	2337.68	(7) ⁻				
3428.96		667.1& 3	100 ^a 12	2762.03	3 ⁻ ,4 ⁻ ,5 ⁻ ,6 ⁻ ,7 ⁻				
		773.7& 3	60 ^a 12	2655.10					
3489.83		459.5& 3	38 ^a 8	3030.53					
		727.6& 3	100 ^a 25	2762.03	3 ⁻ ,4 ⁻ ,5 ⁻ ,6 ⁻ ,7 ⁻				
3508.1	(12 ⁺)	717.4# 3	100	2790.8	(10 ⁺)	Q			Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
3519.19		102.8& 3	8.9 ^a 22	3416.30	-				
		1181.6& 4	100 ^a 11	2337.68	(7) ⁻				
		1707.9& 5	6.7 ^a 22	1811.13	6 ⁺				
3587.8		404.3& 3	100 ^a 20	3183.28	(5) ⁻ , (6) ⁺				
		1250.5& 4	1.0 $\times 10^2$ ^a 10	2337.68	(7) ⁻				
3597.09		445.7& 3	100 ^a 20	3151.11	(9) ⁻				
		835.8& 4	67 ^a 67	2762.03	3 ⁻ ,4 ⁻ ,5 ⁻ ,6 ⁻ ,7 ⁻				
		860.8& 4	27 ^a 7	2736.25					
		1259.5& 4	67 ^a 67	2337.68	(7) ⁻				
		1785.5& 5	27 ^a 7	1811.13	6 ⁺				
3607.42?		1638.93 11	100 17	1968.485	1 ⁺ ,2 ⁺ ,3 ⁺				
		2864.0 6	28 10	743.216	2 ⁺				
3637.0		670.1 ^d 4		2966.9	(8) ⁻				

Adopted Levels, Gammas (continued)

$\gamma(^{128}\text{Te})$ (continued)						
$E_i(\text{level})$	J_i^π	$E_\gamma^\dagger$	$I_\gamma^\dagger$	E_f	J_f^π	Mult. @ Comments
3714.4	(11 ⁻)	563.1 ^d 4		3151.11	(9 ⁻)	Q Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
3731.72?		2211.71 7	<100	1519.995	2 ⁺	
		2988.2 5	16 6	743.216	2 ⁺	
3734.03	(1,2 ⁺)	214.8 ^{&} 2	33 ^a 7	3519.19		D I _γ : from $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$. Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$. I _γ : from $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
		317.7 ^{&} 2	100 ^a 33	3416.30	-	
		582.9 ^{&} 3	33 ^a 7	3151.11	(9 ⁻)	
		972.3 ^{&} 4	33 ^a 33	2762.03	3 ⁻ ,4 ⁻ ,5 ⁻ ,6 ⁻ ,7 ⁻	
3838.4?		3095.1 6	97 31	743.216	2 ⁺	
		3838.3 9	100 31	0.0	0 ⁺	
4035.7		527.6 ^d 4		3508.1	(12 ⁺)	
4063.10?		2543.1 2	48 18	1519.995	2 ⁺	
		3319.8 3	100 21	743.216	2 ⁺	
4171.5		457.1 ^d 5		3714.4	(11 ⁻)	
4265.2	(13 ⁻)	757.1 ^d 4		3508.1	(12 ⁺)	D Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
4341.7		627.1 ^d 5	22 9	3714.4	(11 ⁻)	
		833.7 [#] 3	100 22	3508.1	(12 ⁺)	
4431.2	(14 ⁺)	923.1 [#] 3	100	3508.1	(12 ⁺)	Q Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
4527.3		262.1 ^d 4		4265.2		
4668.4	(14 ⁻)	326.7 [#] 3	100	4341.7	(13 ⁻)	D Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
4728.8	(15 ⁻)	387.0 ^d 4	5.4 22	4341.7	(13 ⁻)	
5077.5		550.2 ^d 5	1.6 8	4527.3		Q Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
5435.8		706.9 ^d 5	60 29	4728.8	(15 ⁻)	
		767.6 ^d 5	10×10 ¹ 4	4668.4	(14 ⁻)	
5447.7		1016.5 ^d 5	3.2 15	4431.2	(14 ⁺)	
5544.8		467.3 ^d 5	1.0 5	5077.5		
5946.5		1217.7 ^d 6	1.8 9	4728.8	(15 ⁻)	Q Mult.: from $\gamma\gamma(\theta)$ in $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.
6211.8		764.1 ^d 7	1.9 9	5447.7		
7726.8		5750 [‡]		1972		
		6207 [‡]		1519.995	2 ⁺	
		7724 [‡]		0.0	0 ⁺	

[†] From (n,n'γ) unless otherwise noted.

[‡] Primary γ of resonance fluorescence in $^{128}\text{Te}(\gamma,\gamma')$.

[#] From ($^{64}\text{Ni},\text{X}$).

Adopted Levels, Gammas (continued) $\gamma(^{128}\text{Te})$ (continued)

@ Multipolarities and mixing ratios are based on linear polarization measurements and on A_2 and A_4 values in $\gamma(\theta)$ in (n,n' γ), unless otherwise noted.

& From ^{128}Sb β^- decay (9.05 h).

^a From ^{128}Sb β^- decay (9.05 h).

^b From ^{128}Sb β^- decay (10.41 min).

^c From ^{128}Sb β^- decay (10.41 min).

^d From $^{238}\text{U}(^{12}\text{C},\text{F}\gamma)$.

^e If No value given it was assumed $\delta=1.00$ for E2/M1, $\delta=1.00$ for E3/M2 and $\delta=0.10$ for the other multipolarities.

^f 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.

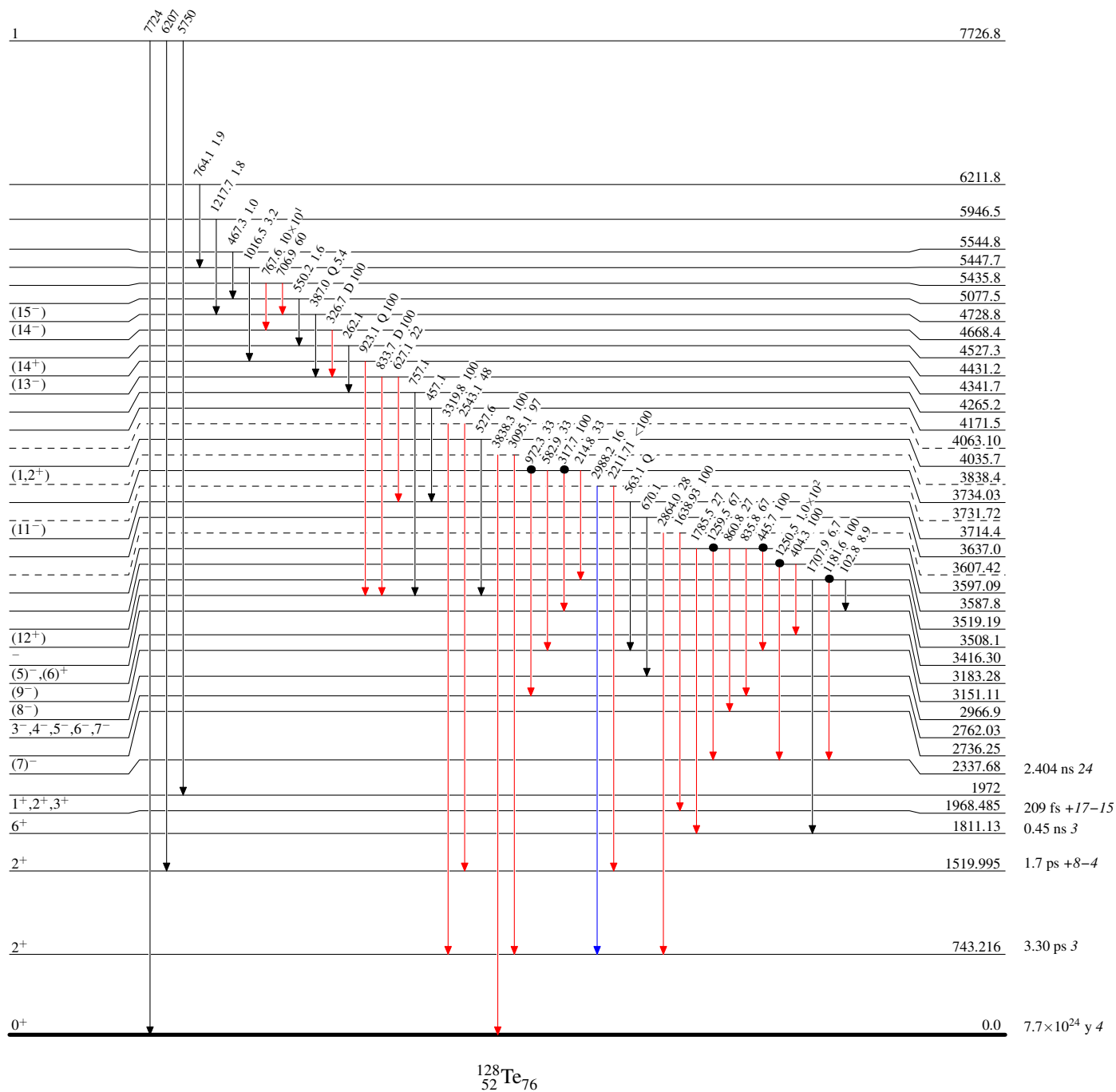
^g Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas**Level Scheme**

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
 —→ $I_\gamma < 10\% \times I_\gamma^{\max}$
 —→ $I_\gamma > 10\% \times I_\gamma^{\max}$
 • Coincidence

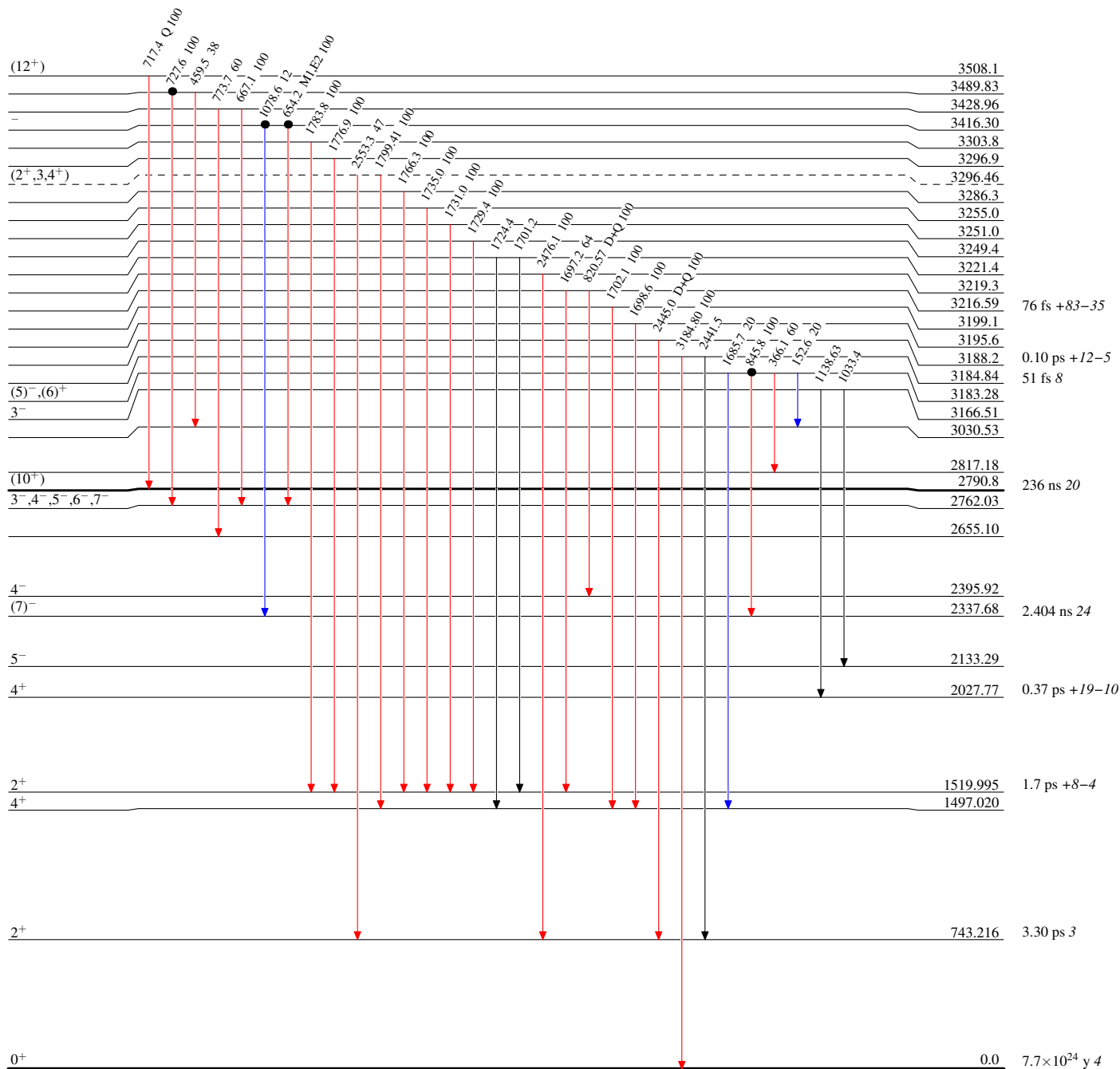


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- Coincidence

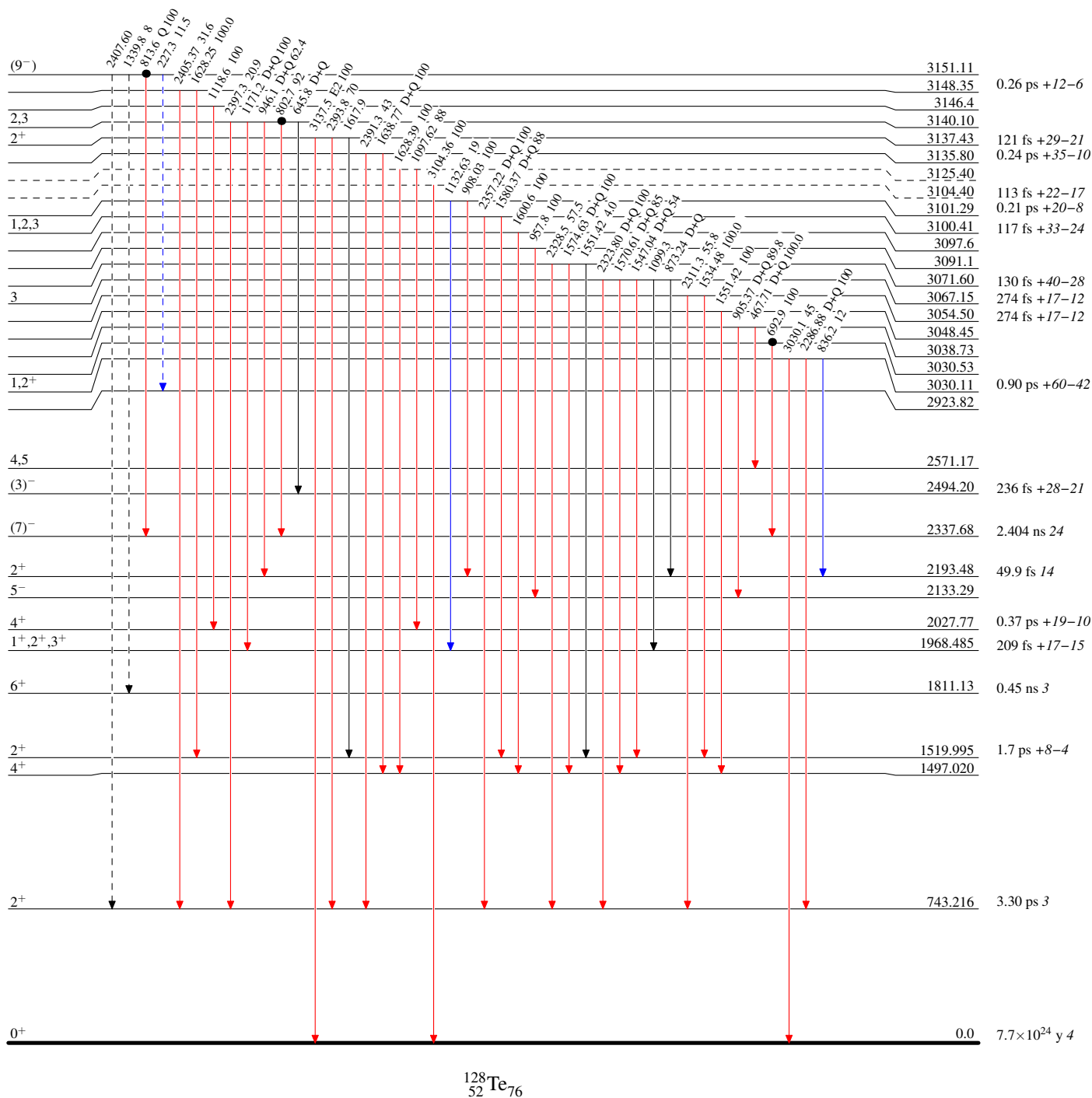


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- - - - -→ γ Decay (Uncertain)
- Coincidence

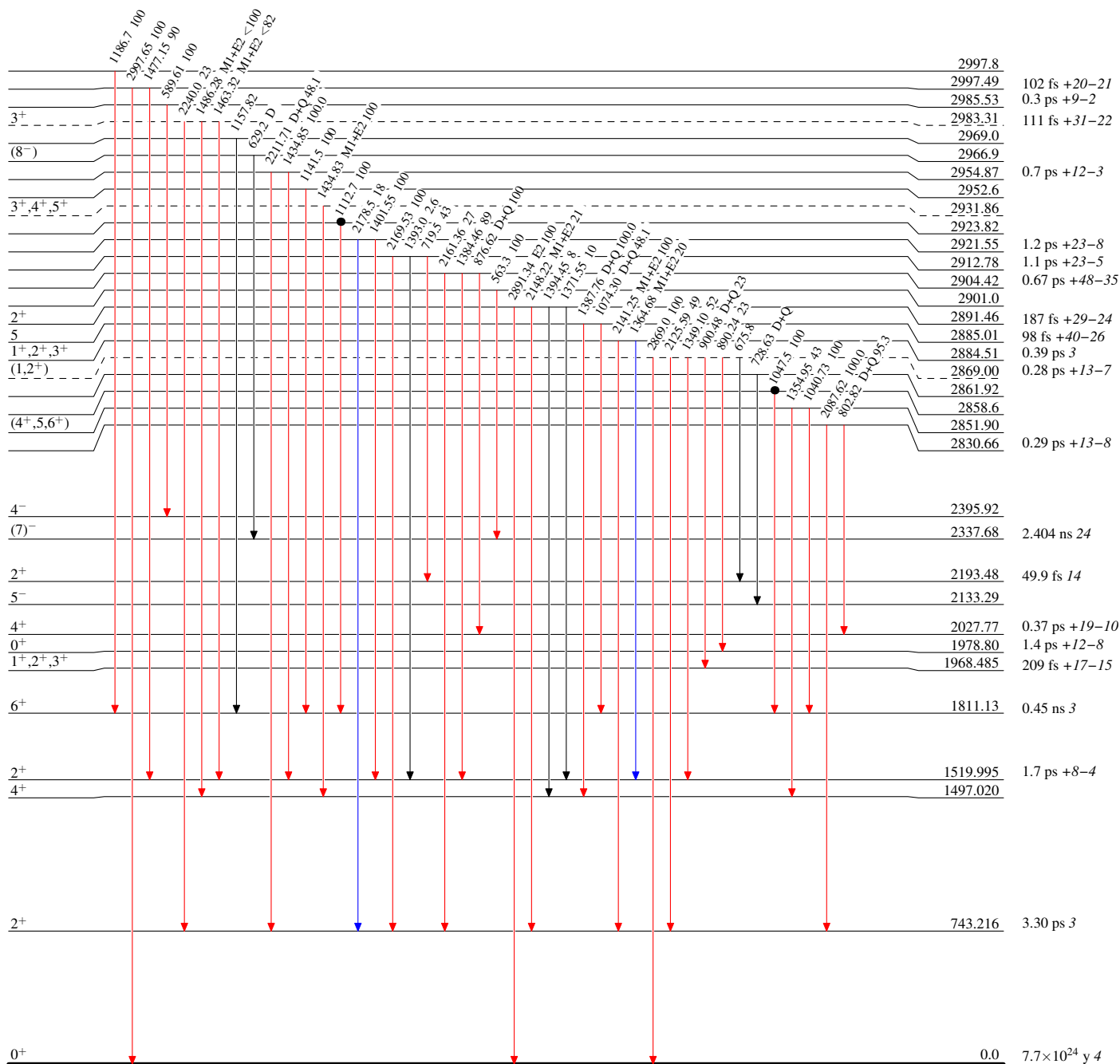
 $^{128}_{52}\text{Te}_{76}$

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

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
 —→ $I_\gamma < 10\% \times I_\gamma^{\max}$
 —→ $I_\gamma > 10\% \times I_\gamma^{\max}$
 • Coincidence

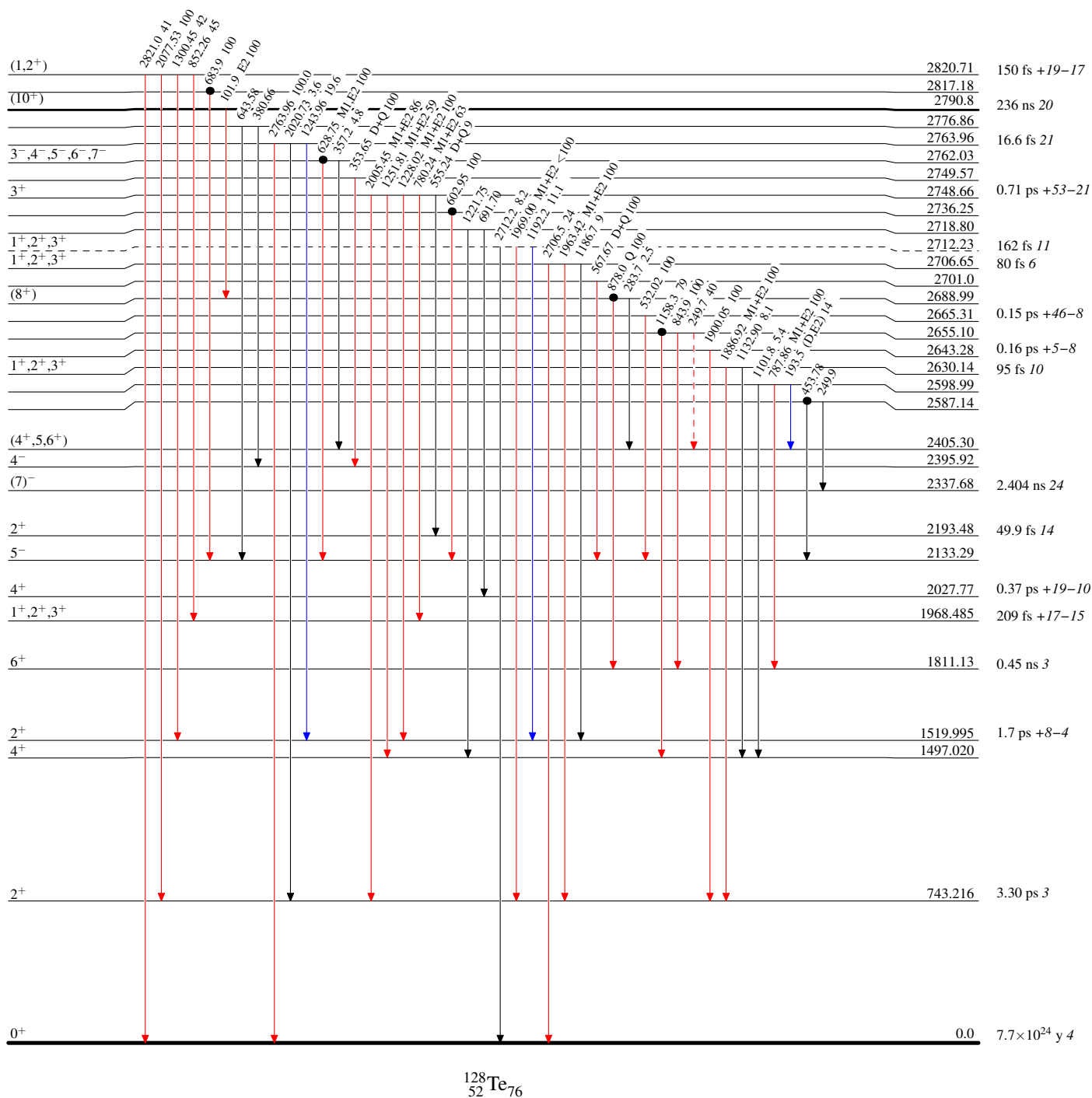


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- - - - -→ γ Decay (Uncertain)
- Coincidence



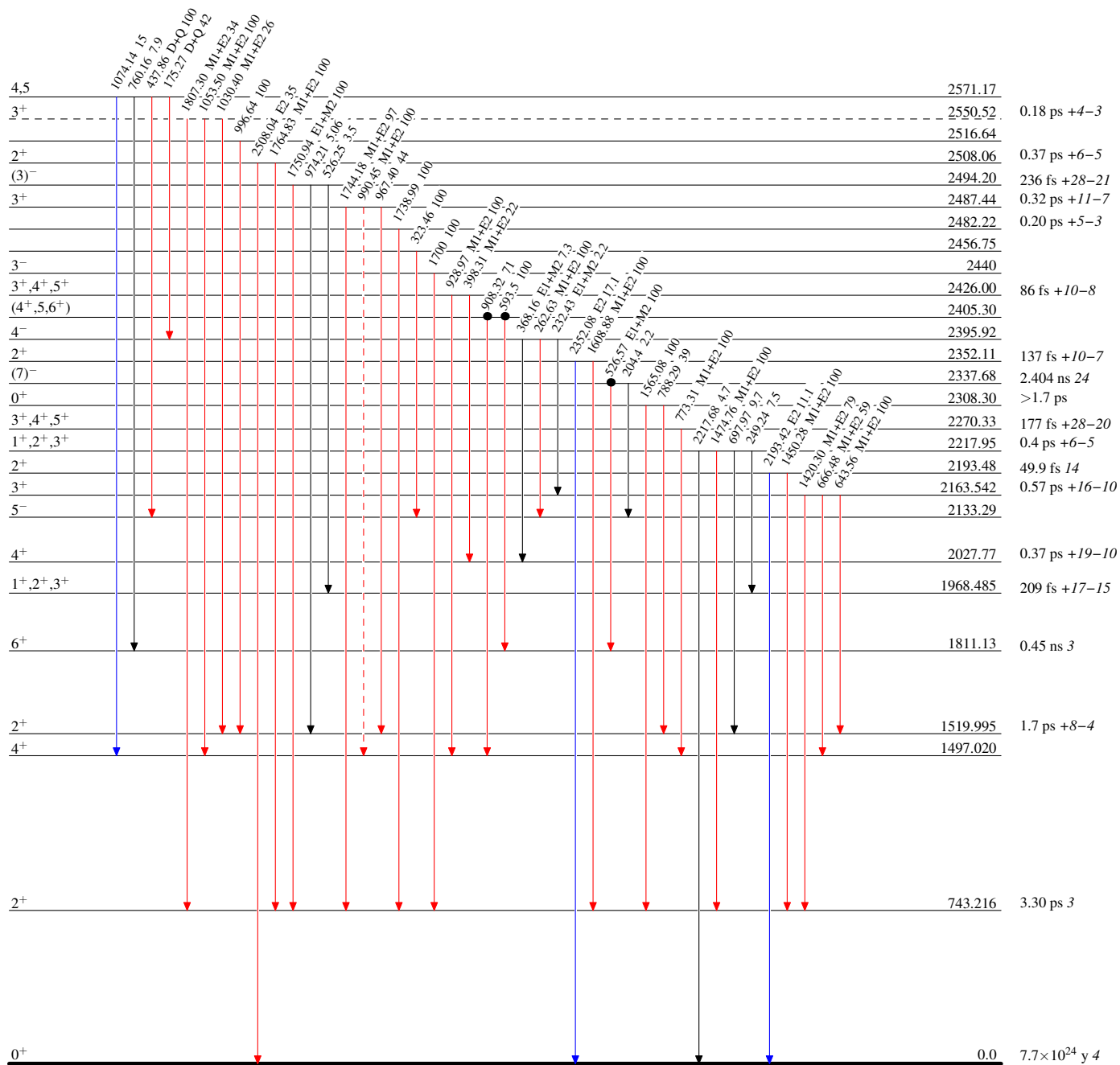
Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- - - - - γ Decay (Uncertain)
- Coincidence

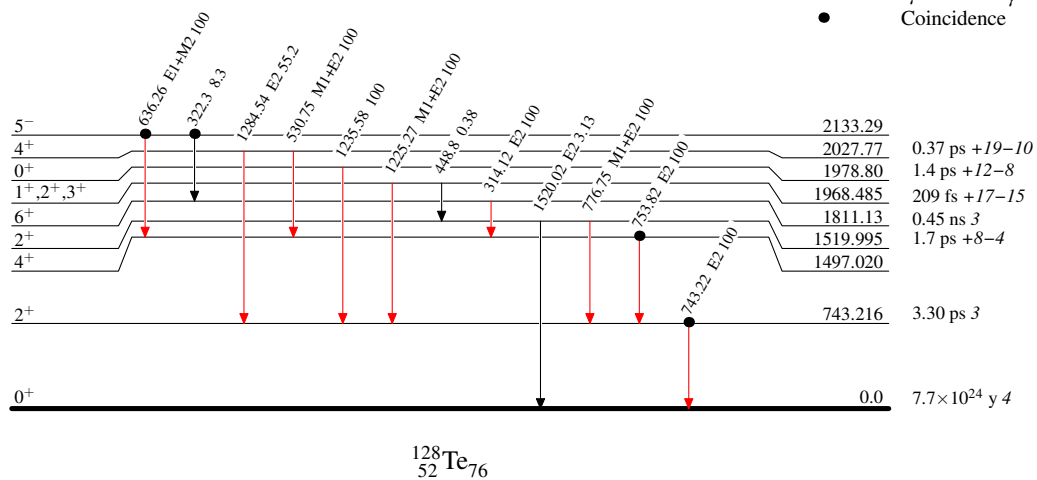


Adopted Levels, Gammas**Level Scheme (continued)**

Intensities: Type not specified

Legend

- $I_\gamma < 2\% \times I_\gamma^{\max}$
- $I_\gamma < 10\% \times I_\gamma^{\max}$
- $I_\gamma > 10\% \times I_\gamma^{\max}$
- Coincidence



Adopted Levels, Gammas

