

Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 93,33 (2001)	11-May-2001

Q(β^-)=-417 4; S(n)=8419.4 9; S(p)=10013 22; Q(α)=-3763 11 2012Wa38
 Note: Current evaluation has used the following Q record -420 4 8419 3 10016 21 -3758 11 1995Au04.
 Additional information 1.
 Muonic atom and isotope shifts: 1989Sh02.
 Isotope shifts from x-ray data: 1970Me10.
 Antiprotonic atoms: 1998Lu05, 1993Wy03.

¹³⁰Te Levels

Cross Reference (XREF) Flags

A ¹³⁰ Sb β^- decay (39.5 min)	E ¹³⁰ Te(n,n' γ)	I Coulomb excitation
B ¹³⁰ Sb β^- decay (6.3 min)	F ¹³⁰ Te(p,p'),(p,p' γ)	J ²³⁸ U(¹² C,F γ)
C ¹³⁰ Te(γ,γ')	G ¹³⁰ Te(d,d')	K ²³⁹ Pu(n,F γ), ²⁴¹ Pu(n,F γ)
D ¹³⁰ Te(⁶⁴ Ni,X γ)	H ¹³⁰ Te(α,α')	

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
0.0	0 ⁺	>0.79×10 ²¹ y	ABCDEFGHIJK	%2 β^- =100 J ^π : measurement (1933Ra02) by optical-spectroscopy method. T _{1/2} : 0.79×10 ²¹ y 10 (from geochemical method,1996Ta04). The value is treated as a lower limit, as proposed by 2000A126. T _{1/2} : Neutrinoless $\beta\beta$ decay: no evidence found by 2000A126 with T _{1/2} >1.44×10 ²³ y (at 90% confidence level). 2000A126 (also 1998A119,1994A149,1994A125,1992A109) used bolometric method with an array of 20 tellurite crystals with a total mass of 6.8 Kilograms. 2000A126 also found no evidence for neutrinoless decay to first 2 ⁺ or excited 0 ⁺ states in ¹³⁰ Xe. T _{1/2} : Geochemical methods: 0.79×10 ²¹ y 10 (1996Ta04), >1.25×10 ²¹ y (1988Li11), 2.60×10 ²¹ y 28 (1983Ki02,1983Ki03), 2.51×10 ²¹ y 24 (1972Sr03), 2.03×10 ²¹ y 30 (1969A122), 2.2×10 ²¹ y 6 (1968Ki02) and ≤1.00×10 ²¹ y 12 (1986Li10), 1.0×10 ²¹ y 3 (1986Ri02), 0.97×10 ²¹ y 11 (1975He04), 0.82×10 ²¹ y 6 (1966Ta02), 1.4×10 ²¹ y (1950In03,1949In03). See also 1993Be04, 1992Be30, 1988Mi13, 1987Be13, 1985HoZN, 1984Fi16, 1980Zd02, 1980Zd03, 1980Zd01, 1970Ki21, 1969Va39, 1967Ge12, 1967Ki04. Compilation and analysis of $\beta\beta$ data: 2001Ej01, 1998K125. Additional information 2.
839.494 17	2 ⁺	2.30 ps 5	ABCDEFGHIJK	μ =+0.58 10 (1989Ra17,1988Du10) Q=-0.15 10 (1989Ra17,1976Bo12) B(E2) [†] =0.295 6 μ : $\gamma(\theta,H)$ in Coul. ex. (1988Du10). See other measurements in Coulomb excitation. Q: reorientation method in Coul. ex. for positive sign of the interference term (1976Bo12). See other details in Coulomb excitation. B(E2) [†] : from Coul. ex. J ^π : L(p,p')=2; E2 γ to 0 ⁺ . T _{1/2} : from B(E2) in Coul. ex. J ^π : E2 γ to 0 ⁺ .
1588.256 24	2 ⁺		BCDEF HI	J ^π : E2 γ to 0 ⁺ .
1632.997 22	4 ⁺		AB DEF IJK	J ^π : E2 γ to 2 ⁺ ; E1 γ from 5 ⁻ .

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Adopted Levels, Gammas (continued)

¹³⁰Te Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
1815.336 25	(6) ⁺	9.8 ns 5	AB DEF JK	J ^π : E2 γ to 4 ⁺ , no γ to 2 ⁺ ; systematics of even Te isotopes. T _{1/2} : γγ(t) in 39.5-min ¹³⁰ Sb decay.
1885.700 25	2 ⁺		BCDEFG	J ^π : E2 γ to 0 ⁺ .
1964.76 4	(0) ⁺		CDE	J ^π : γ(θ) isotropic in (n,n'γ).
1981.546 23	4 ⁺		B DEF H	J ^π : L(p,p')=4; γ(θ) and γ(lin pol) in (n,n'γ).
2101.25 3	5 ⁻		AB DEF H	J ^π : L(p,p')=5; γ(θ) and γ(lin pol) in (n,n'γ).
2138.63 3	3 ⁺		DE	J ^π : M1+E2 γ's to 2 ⁺ , 4 ⁺ .
2146.41 4	(7) ⁻	115 ns 8	A DEF JK	J ^π : log ft=7.4 from from (8 ⁻); E1 γ to (6) ⁺ . T _{1/2} : βγ(t) in 39.5-min ¹³⁰ Sb decay.
2190.615 23	(2 ⁺)		C EF	J ^π : (E2) γ to 0 ⁺ from γ(θ), γ(lin pol) in (n,n'γ).
2282.593 25	(2 ⁺)		EF	J ^π : (E2) γ to 0 ⁺ from γ(θ) and γ(lin pol) in (n,n'γ).
2300.22 4	(2 ⁺)		EFG	J ^π : (E2) γ to 0 ⁺ from γ(θ) in (n,n'γ).
2330.74 4	(4 ⁺)		B DEF	J ^π : log ft=7.2 from (5) ⁺ ; γ to 2 ⁺ ; γ(θ) in (n,n'γ) rules out J=3.
2404.65 4	(6) ⁻		A DE	J ^π : M1+E2 γ's to 5 ⁻ and (7) ⁻ . But log ft=7.65 from (8 ⁻) is inconsistent with (6) ⁻ .
2418? 10	‡		F	
2432.08 7	(7) ⁻		A DE	J ^π : log ft=8.2 from (8 ⁻); M1+E2 γ to (7) ⁻ .
2435.59 4	4 ⁻		DE	J ^π : γ(θ) and γ(lin pol) in (n,n'γ).
2449.48 4	4 ⁺		B EF h	J ^π : γ(θ) and γ(lin pol) in (n,n'γ).
2466.89 4	(2 ⁺) [‡]		EFGh	J ^π : (E2) γ to 0 ⁺ from γ(θ) in (n,n'γ).
2527.06 3	3 ⁻		EF	J ^π : γ(θ) and γ(lin pol) in (n,n'γ).
2575.2? 4			B	J ^π : γ to 4 ⁺ .
2581.15 5	(2 ⁺) [‡]		EFG	J ^π : γ(θ) in (n,n'γ).
2607.33 5	1 [‡]		C EF	J ^π : γ to 0 ⁺ ; γ(θ) in (n,n'γ) rules out J=2.
2648.57 22	(8 ⁺)		D JK	J ^π : γ's to 6 ⁺ and 7 ⁻ ; systematics of even-even Te and Xe nuclides in this mass region.
2648.6+x	(10 ⁺)	1.90 μs 8	D JK	J ^π : systematics, probable νh _{11/2} ⁻² configuration in N=78,80 and Z=52,54 nuclides. T _{1/2} : from timing of 182γ in ²³⁹ Pu(n,Fγ) (2001Ge07). Other: 4.2 μs 9 (from delayed γ rays in (⁶⁴ Ni,Xγ),1998Zh09). E(level): x<25 keV (2001Ge07). Other: x<90 keV (1998Zh09).
2689.12 5	1 [‡]		C EF	J ^π : γ to 0 ⁺ ; γ(θ) in (n,n'γ) rules out J=2.
2714.97? 5	(4 ⁻)		E	J ^π : γ(θ) and γ(lin pol) in (n,n'γ).
2719.49 7	(5 ⁺)		E	J ^π : γ(θ) in (n,n'γ).
2729.5 10	3 ⁻		EFGHi	B(E3)↑=0.061 +20-35 β ₃ =0.073 6 XREF: E(2770). β ₃ : from (p,p'). Others: 0.10 (n,n'); 0.06 (α,α'). J ^π : L(p,p')=L(α,α')=3. E(level): from (p,p'). B(E3)↑: from Coul. ex.
2736.31 5	(4 ⁺)		B E	J ^π : γ's to 2 ⁺ and (6) ⁺ favor J ^π =(4 ⁺); but γ(θ) in (n,n'γ) consistent with J=(5).
2743.14? 4	1		C E	J ^π : γ to 0 ⁺ ; γ(θ) in (n,n'γ) rules out J=2.
2744.97 4	(2 ⁺ ,3)		E	J ^π : γ(θ) in (n,n'γ).
2765.26 22	(4 ⁺)		B	J ^π : γ's to 2 ⁺ and (6) ⁺ .
2770.84 8			A E	
2782.12 12	(7 ⁻)		A E	J ^π : log ft=7.3 from (8 ⁻); γ to 5 ⁻ .
2789.26? 5			E	
2833.35 6	(4,5,6) ⁺		B E	J ^π : log ft=5.8 from (5) ⁺ .
2878.43 10	(7,8,9) ⁻		A D	J ^π : log ft=7.3 from (8 ⁻); M1,E2 γ to (7) ⁻ .
2950 20			FGH	E(level): from (p,p'). J ^π : L=(p,p')=(4).
3081.38 15	(7,8,9) ⁻		A D J	J ^π : log ft=7.4 from (8 ⁻); M1,E2 γ to (7) ⁻ .

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Adopted Levels, Gammas (continued) ^{130}Te Levels (continued)

E(level) [†]	J ^π	T _{1/2}	XREF	Comments
3155.03? 10			E	
3180 20			F H	E(level): from (α,α').
3279 20			F	
3287.90 23	(7,8 ⁺)		A	J ^π : log ft=7.0 from (8 ⁻); γ to (6) ⁺ .
3360 10	3 ⁻		F H	J ^π : L(p,p')=3.
3385.1 3			A	
3404.9 4			A	
3413.1 3	(4,5,6)		B	J ^π : log ft=5.9 from (5) ⁺ .
3470.2 5	(7 ⁻)		A	J ^π : log ft=7.2 from (8 ⁻); γ to 5 ⁻ .
3536.74 21	(7,8,9) ⁻		A	J ^π : log ft=6.6 from (8 ⁻); M1,E2 γ to π=-.
3545.2 4			A	
3565.26 20	(7,8 ⁺)		A	J ^π : log ft=6.5 from (8 ⁻); γ to (6) ⁺ .
3567.7 3	(1,2)		C F	XREF: F(3570).
3642 20			F h	
3708.17 19			A	
3791.4? 11			J	
3909.1 4			A	
3930 20			F	
3995 20			F	
4073.5 5			A	
4170.68 25	(7 ⁻ ,8 ⁻ ,9 ⁻)		A	J ^π : log ft=5.6 from (8 ⁻).
4249.4? 15			J	
4303.7 3	(7 ⁻ ,8 ⁻ ,9 ⁻)		A	J ^π : log ft=5.8 from (8 ⁻).
4375.4? 18		261 ns 33	J	T _{1/2} : from γ(t) (1998HoZP), assumed as T _{1/2} by the evaluator.
4384 20	@		F	
4446 20	@		F	
4460.3 4	(7 ⁻ ,8 ⁻ ,9 ⁻)		A	J ^π : log ft=5.2 from (8 ⁻).
4497 20	@		F	
4531.5 4	(1,2)		C	
4559 20	#		F	
4597 20	#		F	
4667 20	#		F	
4714? 20			F	
4748? 20			F	
4793 20	#		F	
4796 20	&		F	
4833? 20			F	
4856 20	&		F	
4891 20	#		F	
4950 20	#		F	
4983? 20			F	
7538.2 22	1	1.9 fs 5	C	J ^π : dipole γ to 0 ⁺ . T _{1/2} : from Γ _γ =0.24 eV 6 in (γ,γ'). Γ _{γ0} =0.05 eV 1.
7636.5 5	1 ⁻	7.6 fs 40	C	J ^π : E1 γ to 0 ⁺ . T _{1/2} : from Γ _γ =0.06 eV 3 in (γ,γ'). Γ _{γ0} =0.030 eV 10.

[†] From least-squares adjustment to Eγ's.

[‡] (1⁺,2⁺) from on-resonance p(θ) in IAR (1971Hi02).

(3⁻,4⁻) from on-resonance p(θ) in IAR (1971Hi02).

@ (3⁻,4⁻,5⁻) from on-resonance p(θ) in IAR (1971Hi02).

& (1⁻,2⁻) from on-resonance p(θ) in IAR (1971Hi02).

Adopted Levels, Gammas (continued)

$\gamma(^{130}\text{Te})$										
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	δ^\ddagger	$\alpha^@$	$I_{(\gamma+ce)}$	Comments
839.494	2 ⁺	839.49 2	100	0.0	0 ⁺	E2				B(E2)(W.u.)=15.1 3
1588.256	2 ⁺	748.76 2	100 14	839.494	2 ⁺	M1+E2	+0.65 15			
		1588.19 8	1.6 3	0.0	0 ⁺	E2				
1632.997	4 ⁺	793.53 2	100	839.494	2 ⁺	E2				
1815.336	(6) ⁺	182.335 11	100	1632.997	4 ⁺	E2		0.207		$\alpha(\text{K})=0.1647$; $\alpha(\text{L})=0.0339$; $\alpha(\text{M})=0.00691$; $\alpha(\text{N}+..)=0.00158$ B(E2)(W.u.)=6.1 3
1885.700	2 ⁺	1046.21 2	100 14	839.494	2 ⁺	M1+E2	-0.175 10			
		1885.69 18	2.0 4	0.0	0 ⁺	E2				
1964.76	(0 ⁺)	1125.26 3	100	839.494	2 ⁺					
1981.546	4 ⁺	348.58 2	100 10	1632.997	4 ⁺	M1+E2	-0.12 3	0.0234		
		1142.02 2	70 9	839.494	2 ⁺	E2				
2101.25	5 ⁻	468.27 2	100	1632.997	4 ⁺	E1(+M2)	+0.03 2			
2138.63	3 ⁺	505.63 3	37 4	1632.997	4 ⁺	M1+E2	+1.2 5			
		550.36 3	100 10	1588.256	2 ⁺	M1+E2	+2.4 2			
		1299.16 3	94 13	839.494	2 ⁺	M1+E2	+0.32 2			I_γ : other: 200 in (⁶⁴ Ni,X γ).
2146.41	(7) ⁻	(46)		2101.25	5 ⁻				≈ 0.04	
		330.94 5	100	1815.336	(6) ⁺	E1+M2	+0.070 6			B(E1)(W.u.)=6.3 $\times 10^{-8}$; B(M2)(W.u.)=0.013 3
2190.615	(2 ⁺)	1351.11 3	94 13	839.494	2 ⁺	(M1+E2)	-0.27 2			
		2190.60 3	100 15	0.0	0 ⁺	(E2)				
2282.593	(2 ⁺)	1443.09 2	100 15	839.494	2 ⁺	(M1+E2)	-0.10 2			
		2282.60 7	21 3	0.0	0 ⁺	(E2)				
2300.22	(2 ⁺)	1460.72 3	100 14	839.494	2 ⁺	(M1+E2)	-0.20 2			
		2300.0 3	4.5 7	0.0	0 ⁺	(E2)				
2330.74	(4 ⁺)	697.73 3	100 10	1632.997	4 ⁺	(M1+E2)				δ : 1.12 8 or -0.08 4.
		1491.24 7	29 5	839.494	2 ⁺	(E2)				
2404.65	(6) ⁻	258.21 3	100 10	2146.41	(7) ⁻	M1+E2	+0.21 6	0.0516 4		$\alpha(\text{K})=0.04444$ 21; $\alpha(\text{L})=0.00571$ 9; $\alpha(\text{M})=0.00114$; $\alpha(\text{N}+..)=0.00027$
		303.43 3	100 10	2101.25	5 ⁻	M1(+E2)	+0.02 2	0.0335		$\alpha(\text{K})=0.02896$; $\alpha(\text{L})=0.00364$; $\alpha(\text{M})=0.00072$; $\alpha(\text{N}+..)=0.00017$
2432.08	(7) ⁻	285.61 7	35 4	2146.41	(7) ⁻	M1+E2		0.043 2		
		331.0 1	100 10	2101.25	5 ⁻					γ from (⁶⁴ Ni,X γ) only.
2435.59	4 ⁻	334.34 2	100	2101.25	5 ⁻	M1+E2	-0.052 7	0.0261		$\alpha(\text{K})=0.02253$; $\alpha(\text{L})=0.00283$; $\alpha(\text{M})=0.00056$; $\alpha(\text{N}+..)=0.00013$
2449.48	4 ⁺	816.48 3	100 8	1632.997	4 ⁺	M1+E2	-0.21 2			
		861.6 4	3.3 17	1588.256	2 ⁺					
2466.89	(2 ⁺)	1627.38 3	100 14	839.494	2 ⁺	(M1+E2)				$\delta=-0.48$ 4 or $1/\delta=-0.02$ 3.
		2466.94 18	11 2	0.0	0 ⁺	(E2)				
2527.06	3 ⁻	894.06& 14	4.3 7	1632.997	4 ⁺					
		1687.56 2	100 16	839.494	2 ⁺	E1(+M2)	+0.030 6			
2575.2?		942.2 4	100	1632.997	4 ⁺					

Adopted Levels, Gammas (continued)

$\gamma(^{130}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	δ^\ddagger	Comments
2581.15	(2 ⁺)	992.95 13	12.1 19	1588.256	2 ⁺			
		1741.64 4	100 15	839.494	2 ⁺	D+Q	+0.18 2	
2607.33	1	1767.81 8	61 8	839.494	2 ⁺			
		2607.31 6	100 14	0.0	0 ⁺			
2648.57	(8 ⁺)	502.0 3	75 8	2146.41	(7) ⁻			
		833.4 3	100 10	1815.336	(6) ⁺			
2689.12	1	2689.09 5	100	0.0	0 ⁺			
2714.97?	(4 ⁻)	613.72 3	100	2101.25	5 ⁻	(M1+E2)	+0.42 2	
2719.49	(5 ⁺)	738.1 2	32 6	1981.546	4 ⁺			
		904.04 10	100 16	1815.336	(6) ⁺			
		1086.54 9	74 11	1632.997	4 ⁺	(M1+E2)		δ : -0.21 4 or -2.6.
2729.5	3 ⁻	1890 ^{&}		839.494	2 ⁺			E_γ : tentative γ from Coul. ex.
2736.31	(4 ⁺)	405.2 2	13 5	2330.74	(4) ⁺			
		921.01 5	100 10	1815.336	(6) ⁺			
		1103.29 6	93 9	1632.997	4 ⁺			
		1896.9 8	33 8	839.494	2 ⁺			
2743.14?	1	2743.11 4	100	0.0	0 ⁺			
2744.97	(2 ⁺ ,3)	859.30 4	91 13	1885.700	2 ⁺			
		1112.01 9	29 4	1632.997	4 ⁺			
		1905.43 4	100 14	839.494	2 ⁺			
2765.26	(4 ⁺)	949.8 4	46 9	1815.336	(6) ⁺			
		1131.9 4	59 14	1632.997	4 ⁺			
		1177.3 4	100 10	1588.256	2 ⁺			
		1925.7 ^{&} 8	18 9	839.494	2 ⁺			
2770.84		669.60 7	100 20	2101.25	5 ⁻			
		1137.6 ^{&} 5	27 20	1632.997	4 ⁺			
2782.12	(7 ⁻)	635.7 3	25 5	2146.41	(7) ⁻			
		680.85 13	100 10	2101.25	5 ⁻			
2789.26?		1156.21 14	25 4	1632.997	4 ⁺			
		1949.76 5	100 14	839.494	2 ⁺			
2833.35	(4,5,6) ⁺	502.6 3	6.3 13	2330.74	(4) ⁺			
		1018.01 5	100 5	1815.336	(6) ⁺			
		1200.0 4	12.0 12	1632.997	4 ⁺			
2878.43	(7,8,9) ⁻	732.0 1	100	2146.41	(7) ⁻	M1,E2		
3081.38	(7,8,9) ⁻	934.9 2	100	2146.41	(7) ⁻	M1,E2		
3155.03?		1173.25 17	86 13	1981.546	4 ⁺			
		1522.14 12	100 15	1632.997	4 ⁺			
3287.90	(7,8 ⁺)	855.7 4	80 15	2432.08	(7) ⁻			
		883.3 4	60 15	2404.65	(6) ⁻			
		1141.4 4	100 20	2146.41	(7) ⁻			
		1473.1 8	30 10	1815.336	(6) ⁺			

Adopted Levels, Gammas (continued)

$\gamma(^{130}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]
3385.1		506.7 3	100 20	2878.43	(7,8,9) ⁻	
		1239.0 5	90 15	2146.41	(7) ⁻	
3404.9		1000.2 4	100 20	2404.65	(6) ⁻	
		1258.5 5	44 9	2146.41	(7) ⁻	
3413.1	(4,5,6)	647.7 3	100 10	2765.26	(4 ⁺)	
		1598.0 5	54 6	1815.336	(6) ⁺	
3470.2	(7 ⁻)	1368.7 5	100 20	2101.25	5 ⁻	
		1655.6 8	73 20	1815.336	(6) ⁺	
3536.74	(7,8,9) ⁻	455.4 2	100 10	3081.38	(7,8,9) ⁻	M1,E2
		658.2 3	35 8	2878.43	(7,8,9) ⁻	
3545.2		1443.7 5	100	2101.25	5 ⁻	
3565.26	(7,8 ⁺)	483.6 3	69 10	3081.38	(7,8,9) ⁻	
		686.6 3	100 10	2878.43	(7,8,9) ⁻	
		1134.2 5	13 6	2432.08	(7) ⁻	
		1419.3 5	38 6	2146.41	(7) ⁻	
		1749.8 8	9 6	1815.336	(6) ⁺	
3567.7	(1,2)	2728 ^{&}	<25	839.494	2 ⁺	
		3567.6 3	100	0.0	0 ⁺	
3708.17		626.7 3	100 10	3081.38	(7,8,9) ⁻	
		829.8 3	64 14	2878.43	(7,8,9) ⁻	
		926.0 5	14 7	2782.12	(7) ⁻	
		1561.6 8	21 7	2146.41	(7) ⁻	
3791.4?		710		3081.38	(7,8,9) ⁻	
3909.1		1030.7 4	60 12	2878.43	(7,8,9) ⁻	
		1762.6 5	100 10	2146.41	(7) ⁻	
4073.5		992.1 4	100	3081.38	(7,8,9) ⁻	
4170.68	(7 ⁻ ,8 ⁻ ,9 ⁻)	462.5 4	22 5	3708.17		
		1089.5 4	100 10	3081.38	(7,8,9) ⁻	
		1292.3 4	100 10	2878.43	(7,8,9) ⁻	
		2023.3 8	11 5	2146.41	(7) ⁻	
4249.4?		458		3791.4?		
4303.7	(7 ⁻ ,8 ⁻ ,9 ⁻)	595.5 3	100 20	3708.17		
		1521.1 8	80 20	2782.12	(7 ⁻)	
		1533.7 8	90 20	2770.84		
4375.4?		126		4249.4?		
4460.3	(7 ⁻ ,8 ⁻ ,9 ⁻)	914.9 4	95 20	3545.2		
		1075.5 5	21 10	3385.1		
		1581.9 8	100 20	2878.43	(7,8,9) ⁻	
4531.5	(1,2)	3691 ^{&}	<10	839.494	2 ⁺	
		4531.4 4	100	0.0	0 ⁺	
7538.2	1	4856 6	11 4	2689.12	1	

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Adopted Levels, Gammas (continued)

$\gamma(^{130}\text{Te})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\dagger	E_f	J_f^π	Mult. [‡]	Comments
7538.2	1	4932 6	11 4	2607.33	1		
		5344 6	15 3	2190.615	(2 ⁺)		
		5571 6	11 3	1964.76	(0 ⁺)		
		5650 6	10 3	1885.700	2 ⁺		
		5950 6	100 16	1588.256	2 ⁺	D [#]	
		6698 6	90 8	839.494	2 ⁺	D [#]	
		7538 6	80 16	0.0	0 ⁺	D [#]	
7636.5	1 ⁻	5749		1885.700	2 ⁺		
		6049		1588.256	2 ⁺		
		6797		839.494	2 ⁺		
		7637		0.0	0 ⁺	E1 [#]	B(E1)(W.u.)=3.9×10 ⁻⁵ 13

† Generally from (n,n'γ) where most precise and complete data are available. In a few cases weighted averages were taken where common levels were populated.

‡ From $\gamma(\theta)$ and $\gamma(\text{lin pol})$ in (n,n'γ), unless otherwise stated.

From $\gamma(\theta)$ and/or $\gamma(\text{lin pol})$ in (γ,γ').

@ 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.

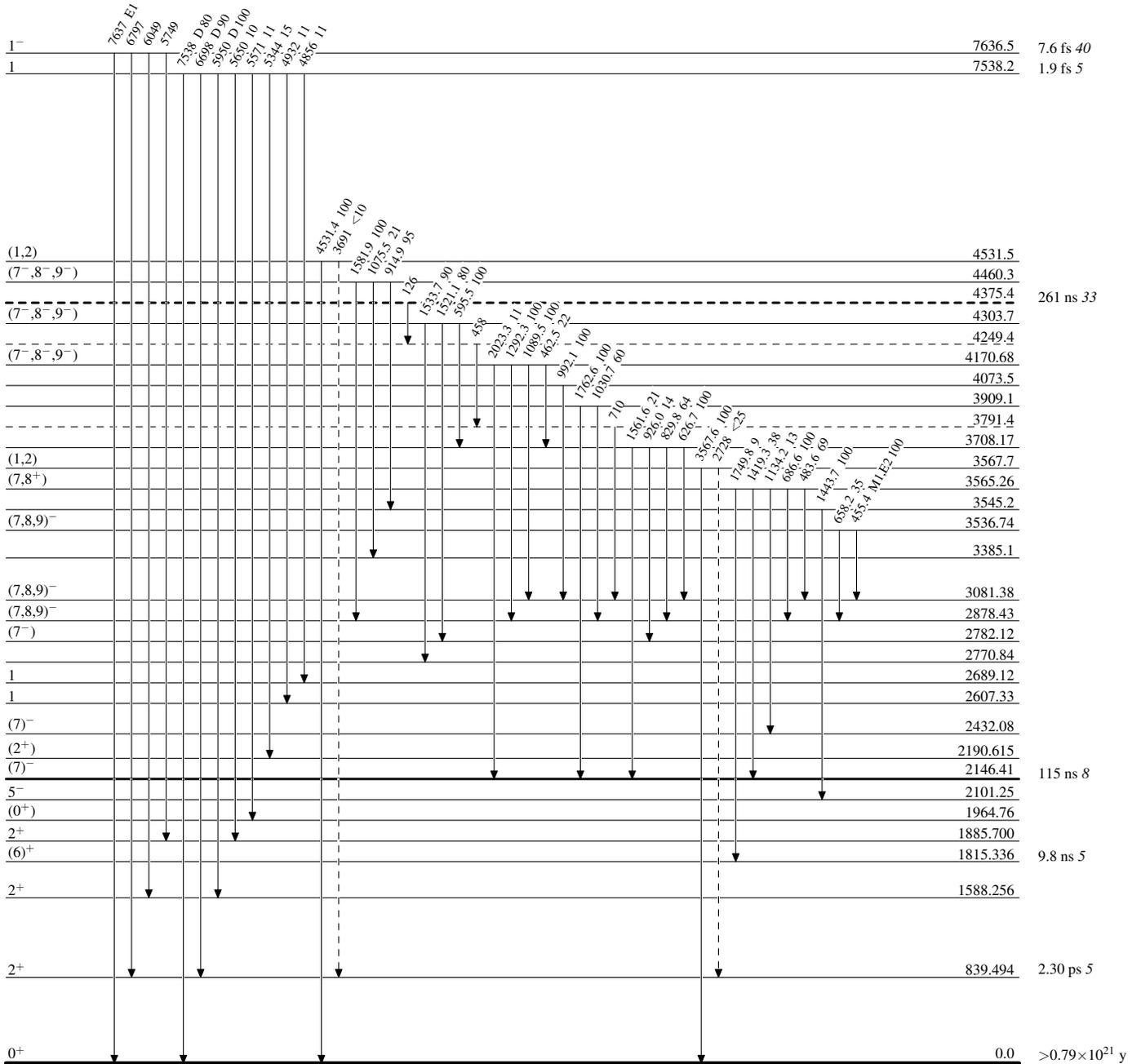
& Placement of transition in the level scheme is uncertain.

Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

-----▶ γ Decay (Uncertain) $^{130}_{52}\text{Te}_{78}$

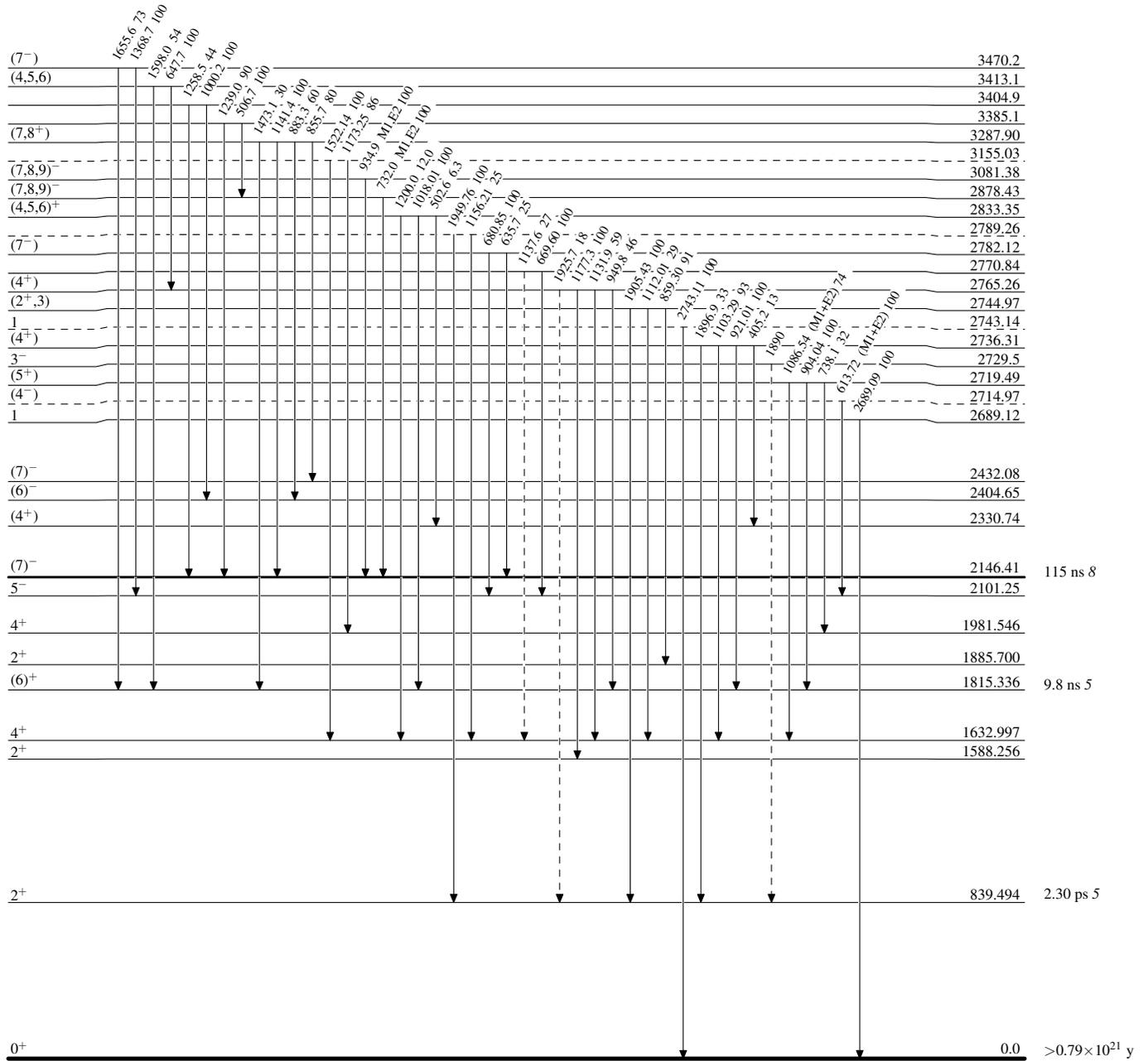
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

-----> γ Decay (Uncertain)



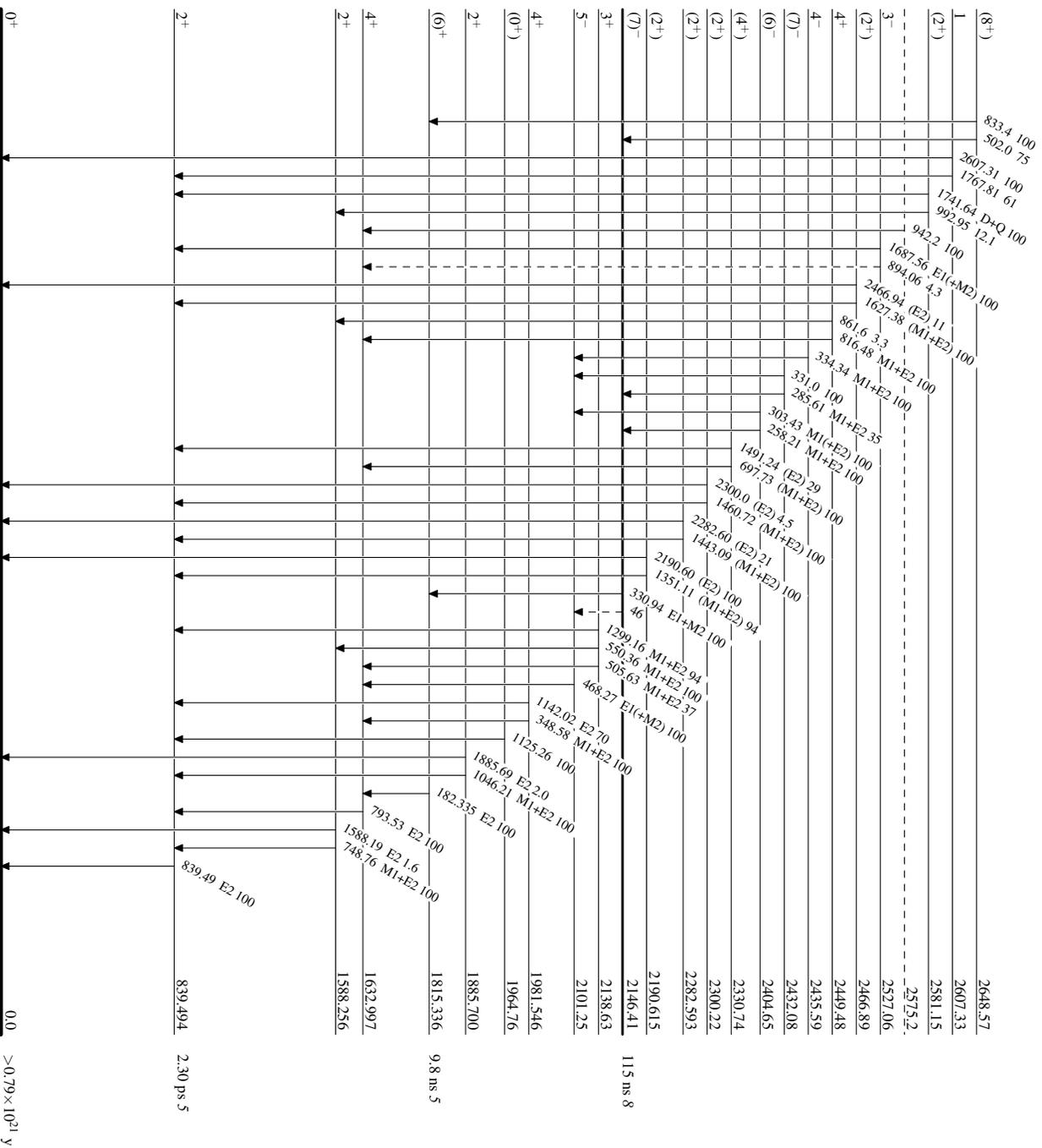
Adopted Levels, Gammas

Legend

Level Scheme (Continued)

Intensities: Relative photon branching from each level

-----> γ Decay (Uncertain)



¹³⁰Te-78
₅₂