Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Shaofei Zhu	NDS 182, 2 (2022).	1-Apr-2022

Q(β^-)=−9.3×10^2 *5*; S(n)=6545.5 *3*; S(p)=7133 *14*; Q(α)=4573.0 *9* 2021Wa16
S(2n)=11843.0 *3*, S(2p)=12746.3 *24* (2021Wa16).
Spontaneous fission: 2005Xu01, 2004Ro01, 2001Vl04, 1997Ro12, 1993Mo16, 2001Po31 and 1994Pi12 (ternary fission accompanied by emission of light charged particles); 2000Gu28 (fission fragments distribution, theory).
α: Additional information 1.

^{236}U Levels

Cross Reference (XREF) Flags

A	^{236}Pa β^- decay	G	^{235}U(d,pγ)	M	^{237}Np(t,$\alpha\gamma$)
B	^{236}Np ε decay (155×10^3 y)	H	^{235}U(n,γ) E=thermal	N	^{238}U(p,t)
C	^{236}Np ε decay (22.5 h)	I	^{235}U(n,γ) E=2 keV	O	Coulomb excitation
D	^{240}Pu α decay	J	^{236}U(d,d′)	P	Inelastic scattering
E	^{234}U(t,p)	K	^{236}U(d,pnγ)	Q	^{236}U(γ,γ')
F	^{235}U(d,p)	L	^{236}U(γ,xn),(γ,F) E=resonance	R	^{237}Np(^{209}Bi,^{210}Poγ)

E(level)[†]	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0[@]	0$^+$	2.342×10^7 y *4*	ABCDE GH JK MNOPQR	%α=100; %SF=9.4×10^{-8} *4* T$_{1/2}$: recommended value in 1989Ho24, based on measured values of 2.45×10^7 y *7* (1951Ja09), 2.391×10^7 y *18* (1952Fl20) and 2.3415×10^7 y *39* with uncertainty adjusted from 0.06% to 0.25% (1972Fl03). %SF: from T$_{1/2}$(SF)=2.49×10^{16} y *11*, the weighted average of 2.0×10^{16} y *16* (1949JaZZ), 2.7×10^{16} y *3* (1971Co35 taking T$_{1/2}$(SF)(^{238}U)=8.2×10^{15} y *1* in 2000Ho27), 2.43×10^{16} y *13* (1981Vo02) and 2.7×10^{16} y *4* (1982BeYI,1983Be66). Q$_0$=13.8 b^2 *2* from Isotope shifts (1978Ge10).
45.2431[@] *20*	2$^+$	235 ps *6*	ABCDE GHIJK MNOPQR	B(E2)↑=11.60 *15* T$_{1/2}$: from ^{240}Pu α decay; other: 218 ps *4* deduced using measured B(E2)↑ value from Coul. ex. J$^\pi$: E2 γ to 0$^+$ and g.s. band member. Q(^{236}U)/Q(^{234}U)=1.13 *9* (1974Me18), 0.99 *5* (1974Mo12). Ratio of gyromagnetic factors g-factor (^{236}U)/g-factor (^{234}U)=0.98 *6* (1974Me18). Measured isotopic shift, gyromagnetic factors. $\Delta<r^2>/<r^2>=-21\times10^{-6}$ *21* (1974Mo12), <6×10^{-6} (1974Me18). B(E2)↑: from Coul. ex.; other: 12.2 *6* from ^{236}U(d,d′).
149.480[@] *5*	4$^+$	130 ps *9*	ABCDE GHIJK MNOP R	J$^\pi$: E2 γ to 2$^+$ and g.s. band member. T$_{1/2}$: weighted average of 124 ps *7* (1976Gu06) from Coul. ex. and 142 ps *10* (1970ToZZ) from ^{240}Pu α decay. B(E4)↑=1.7 e^{2}b^4 *6* (1973Be44) from Coul. ex.
309.788[@] *6*	6$^+$	58[‡] ps *3*	B DE GH JK MNOP R	J$^\pi$: E2 γ to 4$^+$ and g.s. band member.
522.26[@] *4*	8$^+$	23.9[‡] ps *19*	D G JK MNOP R	B(E2)↑=6.1 *8* B(E2)↑: from Coul. ex. J$^\pi$: E2 γ to 6$^+$ and g.s. band member.
687.56[&] *4*	1$^-$[k]	3.78 ns *9*	ABCD FGH JK M O	T$_{1/2}$: from ^{236}Np ε decay (22.5 h).

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Adopted Levels, Gammas (continued)

^{236}U Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
				Jπ: E3 γ to 4+, E1 γ to 0+.
744.18[&] *7*	3−[k]		AB DEFGH JK O	B(E3)↑=0.70 *5* B(E3)↑: from (d,d′); other: 0.53 *7* from Coul. ex. Jπ: γ to 4+, γ to 1−, member $K^{\pi}=0^-$ band.
782.4[@] *5*	10+	11.6[‡] ps *11*	K M O R	B(E2)↑=5.0 *4* B(E2)↑: from Coul. ex. Jπ: E2 γ to 8+ and g.s. band member.
848.3[&] *10*	5−		B GH JK O	Jπ: (E2) γ to 3−, member of $K^{\pi}=0^-$ band.
919.18[c] *12*	0+		A D H J N	Jπ: from L(p,t)=0.
957.90[d] *15*	2+		A D H J NO	B(E2)↑=0.195 *14* B(E2)↑: from (d,d′); other: 0.18 *2* from Coul. ex. Jπ: γ to 2+, γ to 0+, L(p,t)=(2), Coul. ex. and (d,d′), probable bandhead of $K^{\pi}=2^+$.
960.05[c] *20*	(2+)		D HI	Jπ: (E0+M1) γ to 2+.
966.58[e] *9*	(1−)[k]		A D FGH	Jπ: (E1) γ to 0+, (E1) γ to 2+ and γ to 1−.
987.66[e] *8*	2−[k]		A FGH	Jπ: (E1) γ to 2+, M1+E2 γ to 3−, γ to 1−, log *ft*=8.0 from J=1 in ^{236}Pa β− decay.
999.8[&] *12*	7−		JK O	Jπ: from Coul. ex., E2 γ to 5−, member of $K^{\pi}=0^-$ band.
1001.6[d] *3*	(3+)		HI	Jπ: γ to 4+, γ to 3−, γ to 2+. Strongly populated in (n,γ) E=2 keV.
1035.6[e] *22*	3−[k]		F H J O	B(E3)↑=0.35 *2* XREF: O(1040). B(E3)↑: from (d,d′); other: 0.31 *8* from Coul. ex. Jπ: from (d,d′).
1050.86[c] *15*	(4+)		HI	Jπ: strong population in (n,γ), γ to 2+, (E0+E2) γ to 4+.
1052.9[f] *4*	4−[k]	101 ns *6*	FGH	Jπ: (E1) γ to 4+, M1+E2 γ to 3−, (d,p) favors 4−. $T_{1/2}$: weighted average of 97 ns *6* (1979McZP, 1978ClZR), 103 ns *6* (1980Bu13) and 125 ns *20* (1973Br05). Configuration=((ν 1/2[631])+(ν 7/2[743])) from (d,p) strength.
1058.8[d] *3*	(4+)		HIJ	Jπ: M1 γ to 4+, γ to 2+, strongly populated in (n,γ); probable member of $K^{\pi}=2^+$ band.
1066.1 *10*	(3+,4+)		I	Jπ: strongly fed in (n,γ).
1070.0[e] *10*	(4−)[k]		EF H	Jπ: γ to 4+, (d,p) favors 4−.
1085.4[@] *7*	12+	5.5[#] ps *+18−33*	K O R	B(E2)↑=4.1 *6* B(E2)↑: from Coul. ex. Jπ: E2 γ to 10+ and g.s. band member.
1093.8 *10*	(2+,5+)		I	Jπ: from strength of average resonance (n,γ) capture.
1104.4[f] *14*	(5−)[k]		F	Jπ: (d,p) favors 5−.
1110.66[g] *8*	(2−)		A H M	Jπ: γ to 2+; γ to 1−; γ to 3−; log *ft*=7.6 from J=1 in ^{236}Pa β− decay.
1127.38[d] *20*	(5+)		HI	Jπ: γ to 4+, fed strongly in (n,γ).
1147.0 *10*	(3+,4+)		I	Jπ: strongly fed through E1 γ in resonance (n,γ) E=2 keV capture states with $J^{\pi}=3^-,4^-$.
1149.4[g] *10*	(3−)		H J O	B(E3)↑=0.26 *3* B(E3)↑: from (d,d′), other: 0.16 *6* from Coul. ex. Jπ: γ to 3−, (d,d′) favors (3−);
≈1164?[e]	(5−)[k]		F	Jπ: from (d,p), possible member of $K^{\pi}=1^-$ band.
1164[f] *3*	(6−)[k]		F	Jπ: from (d,p), possible member of $K^{\pi}=4^-$ band.
1171.8 *2*			H	

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Adopted Levels, Gammas (continued)

^{236}U Levels (continued)

E(level)[†]	Jπ	T1/2	XREF	Comments
1191.6[a] *10*	(3⁻)		F	Jπ: from (d,p), possible member of $K^\pi=3^-$ band.
1198.6[&] *12*	9⁻		E K O	Jπ: from Coul. ex. E2 γ to 7⁻, member of $K^\pi=0^-$ band.
1221.4 *10*	(2⁺,5⁺)		HI	Jπ: from the feeding strength of E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
≈1232[f]	(7⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=4^-$ band.
1232.2[a] *10*	(4⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=3^-$ band.
1240 *2*			J N	
1249.3 *10*	(2⁺,5⁺)		I	Jπ: from the feeding strength of E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1265.2 *10*	(3⁺,4⁺)		E IJ	Jπ: strongly fed through E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1271.10 *8*	(1⁻,2,3)		A	Jπ: γ to 2⁺, γ to 3⁻, log *ft*=8.3 from J=1 in ^{236}Pa β⁻ decay.
1282.2[a] *10*	(5⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=3^-$ band.
1320[f] *4*	(8⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=4^-$ band.
1320.4 *10*	(2⁺,5⁺)		I	Jπ: from the feeding strength of E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1329.0 *10*	(3⁺,4⁺)		I	Jπ: strongly fed through E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1332.8 *10*	(3⁺,4⁺)		HIJ	Jπ: strongly fed through E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1342.8[a] *10*	(6⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=3^-$ band.
1347.5 *10*	(3⁺,4⁺)		HI	Jπ: strongly fed through E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1351.3 *10*	(3⁺,4⁺)		E I	Jπ: strongly fed through E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1381.3 *10*	(3⁺,4⁺)		I	Jπ: strongly fed through E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1392 *5*			E	
1399.8 *10*	(2⁺,5⁺)		I	Jπ: from the feeding strength of E1 γ in resonance (n,γ) E=2 keV capture states with $J^\pi=3^-,4^-$.
1413.3[a] *19*	(7⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=3^-$ band.
1426.4[@] *9*	14⁺	2.8[#] ps *3*	K O R	B(E2)↑=4.5 *5* B(E2)↑: from Coul. ex. Jπ: E2 γ to 12⁺ and g.s. band member.
1443.6[&] *13*	11⁻		K O	Jπ: from Coul. ex. E2 γ to 9⁻, member of $K^\pi=0^-$ band.
1471.7[b] *10*	(6⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=6^-$ band.
1541.8[b] *13*	(7⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=6^-$ band.
1572.2 *6*			H	
1580? *13*	(1,2)		FG	Jπ: populated by 1170γ from 2750-keV ($J^\pi=0^+$) fission isomer. E(level): Possible but unlikely the order of 1580 and 1170 are reversed which would result instead with a level at E(level)=1170.
1604.80 *7*	(1⁻,2⁺)		A F	XREF: F(1600.8). Jπ: γ to 0⁺, γ to 2⁺, γ to 3⁻.
1621.8[b] *12*	(8⁻)[k]		F	Jπ: from (d,p), possible member of $K^\pi=6^-$ band.
1642.5 *20*			H	
1662.36 *8*	(1,2⁺)		A F H	Jπ: γ to 0⁺, γ to 2⁺, log *ft*=7.1 from J=1 in ^{236}Pa β⁻ decay.
1689.6 *17*			F	
1732.6[&] *17*	13⁻		K O	Jπ: from Coul. ex. E2 γ to 11⁻, member of $K^\pi=0^-$ band.
1748 *3*			F	
1775.9 *22*			F	
1791.3 *7*	1(+)[l]		Q	B(M1)↑=0.38 *5* B(M1)↑: from (γ,γ′).

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Adopted Levels, Gammas (continued)

^{236}U Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
				Jπ: (M1) γ to 0^+ and 2^+.
1801.0[@] *10*	16^+	2.1[#] ps *2*	K O R	B(E2)↑=3.8 *3* B(E2)↑: from Coul. ex. Jπ: E2 γ to 14^+ and g.s. band member.
1807.88 *7*	$(1,2^+)$		A F N	Jπ: γ to 0^+, γ to 2^+ and log *ft*=6.3 from J=1 in ^{236}Pa β^- decay.
1854.8 *20*			F	
1865.39 *15*	$(1,2^+)$		A	Jπ: γ to 0^+ and 1^-, log *ft*=7.3 from J=1 in ^{236}Pa β^- decay.
1896.9 *7*			H	
1912.0 *16*			F	
1946.8 *20*			F	
1972.62 *9*	$(1,2^+)$		A	Jπ: γ to 0^+ and 2^+, log *ft*=6.6 from J=1 in ^{236}Pa β^- decay.
1979.15 *8*	$(1^-,2)$		A	Jπ: γ to 1^-, 2^+ and 3^-; log *ft*=6.4 from J=1 in ^{236}Pa β^- decay.
1981.04 *16*	$(1,2^+)$		A	Jπ: γ to 0^+ and 2^+; log *ft*=6.7 from J=1 in ^{236}Pa β^- decay.
2054.2 *7*	$1^{(+)}$*l*	‡	F Q	B(M1)↑=0.25 *4* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2060.6[&] *19*	15^-		O	Jπ: from Coul. ex. E2 γ to 13^-, member of $K^\pi=0^-$ band.
2086.54 *9*	$1^{(-)}$		A Q	B(E1)↑=2.7 *7* B(E1)↑: from (γ,γ′). Jπ: (E1) γ to 0^+ and 2^+; log *ft*=6.3 from J=1 in ^{236}Pa β^- decay.
2095.7 *7*	$1^{(+)}$*jl*		Q	B(M1)↑=0.15 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2114 *3*			F	
2155.40 *12*	(0,1,2)		A F	Jπ: log *ft*=6.6 from J=1 in ^{236}Pa β^- decay.
2176.9 *18*			F	
2188.8 *7*	$1^{(+)}$*jl*		Q	B(M1)↑=0.92 *9* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2190 *12*	$(1,2^+)$		G	Jπ: γ from 0^+ (2750-keV fission isomer), 2190γ to 0^+.
2204.0[@] *12*	18^+	1.17[#] ps *12*	F O R	B(E2)↑=4.7 *5* B(E2)↑: from Coul. ex. Jπ: E2 γ to 16^+ and g.s. band member.
2226.9? *3*	(0,1,2)		A	Jπ: γ to 2^+, log *ft*=7.21 from J=1 in ^{236}Pa β^- decay.
2234 *4*			F	
2243.9 *10*	1^j		Q	
2251.1 *7*	$1^{(+)}$*j*		Q	B(M1)↑=0.25 *4* B(M1)↑: from (γ,γ′). Jπ: γ to 0^+ and 2^+.
2260.4 *10*			F	
2284.7 *7*	$1^{(+)}$*jl*		Q	B(M1)↑=0.31 *4* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2426.6[&] *22*	17^-		O	Jπ: from Coul. ex. E2 γ to 15^-, member of $K^\pi=0^-$ band.
2435.6 *7*	$1^{(+)}$*jl*		Q	B(M1)↑=0.25 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2440.2 *7*	$1^{(+)}$*jl*		Q	B(M1)↑=0.19 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2457.3 *7*	$1^{(+)}$*jl*		Q	B(M1)↑=0.21 *3* B(M1)↑: from (γ,γ′).

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Adopted Levels, Gammas (continued)

^{236}U Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
				Jπ: (M1) γ to 0^+ and 2^+.
2494.5 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.21 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2498.5 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.20 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2631.8[@] *13*	20^+	0.84[#] ps *12*	O R	B(E2)↑=4.9 *7* B(E2)↑: from Coul. ex. Jπ: E2 γ to 18^+ and g.s. band member.
2699.0 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.19 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2712.1 *7*	$1^{(-)}$ *j*		Q	B(E1)↑=1.4 *3* B(E1)↑: from (γ,γ′). Jπ: (E1) γ to 0^+ and 2^+.
2750 *7*	(0^+)	67 ns *3*	G K	%IT=88 *3*; %SF=12 *3* %IT,%SF: deduced from weighted average of Γ(γ)/Γ(f)=7 *2* (1976An11) and Γ_γ/Γ_f=8 *3* (1989Sc30) with %α=0. Others: Γ_γ/Γ_f≈6 (1978Gu02), Γ_γ/Γ_f<4.5 (1980Bu13), Γ_γ/Γ_f=8 *3* (1989Sc30), Γ(γ)/Γ(f)<1.5 (1978Ba47), Γ_γ/Γ_f=6.6 *6* (2020Ba53) for En=0.2-1.2 eV and Γ_γ/Γ_f=12.5 *18* (2020Ba53) for En=1.2-12 eV; %SF≈10 (1979Be33). %α: <10, quoted by 1989Sc30 from unpublished work, and no reported measurements. Jπ: (E1) γ to 1^-; interpreted as the g.s. in second minimum of the nuclear potential. $T_{1/2}$: weighted average of 68 ns *6* (2020Ba53), 66 ns *3* (2020Ba53), 92 ns *15* (1972PiZR), 80 ns *20* (1971Bo61), 70 ns *30* (1971Be62), 70 ns *14* (1970Re05) and 66.6 ns *87* (1970El03). Others: 110 ns *50* (1969La14), 105 ns *20* (1970Wo06), 130 ns *15* (1971Br38), 130 ns *40* (1972Pe01), 116 ns *7* (1975Ch09), 120 ns *15* (1977Bo09), 115 ns *5* (1978Gu02,1980Gu20), 137 ns *18* (1982Go02), 125 ns *30* (1989Sc30), 121 ns *2* (1989Ma57,1990Ma59), 144 ns *32* (1974HeZE), ≈110 ns (1972HoXQ), and 114 ns *46* (1970Vi05). Data are clustered around two values, one approximately 70 ns and the other approximately 120 ns. Evaluator adopts the former, as 2020Ba53 note the possibility of contributions of higher lying states in measurements with longer lifetimes. E(level): from ^{235}U(d,pγ). Others: ≈2400 keV (1968Ca23,1969Bj02), <2960 (1970El03), ≈2350 (1970So06) and 2795 keV *5* (1987ScZP). ce′s preceding fission observed, interpreted as g.s. cascade in second minimum with inertia constant A=3.54 (1974HeZE), and A=3.36 keV *1* (1977Bo09) following E=AJ(J+1). One ternary fission per 160 binary fissions observed by 1989Ma57, 1989Ma54.
2756.2 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.08 *2* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2770[h] *7*	(2^+)[i]		G	
2817[h] *7*	(4^+)[i]		G	
2823[&] *4*	(19^-)		O	Jπ: from Coul. ex. (E2) γ to 17^-, member of $K^\pi=0^-$ band.

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Adopted Levels, Gammas (continued)

^{236}U Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
2823.3 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.11 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2838.3 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.09 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2877.8 *7*	$1^{(-)}$ *j*		Q	B(E1)↑=1.6 *4* B(E1)↑: from (γ,γ′). Jπ: (E1) γ to 0^+ and 2^+.
2891[h] *8*	(6^+)[i]		G	
2924.0 *7*	$(1,2^+)$		Q	Jπ: γ to 0^+ and 2^+.
2969.0 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.12 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
2991[h] *8*	(8^+)[i]		G	
3081.0[@] *14*	22^+	0.65[#] ps *15*	O R	B(E2)↑=4.9 *11* B(E2)↑: from Coul. ex. Jπ: E2 γ to 20^+ and g.s. band member.
3143.8 *7*	$1^{(+)}$ *jl*		Q	B(M1)↑=0.15 *3* B(M1)↑: from (γ,γ′). Jπ: (M1) γ to 0^+ and 2^+.
3434 *7*	(0^+)	<20 ns	K	Jπ: (E0) to 2750-keV, 0^+ isomer; bandhead of β band in second minimum. $T_{1/2}$: from ^{236}U(d,pnγ).
3550.0[@] *17*	24^+	0.41[#] ps *8*	O	B(E2)↑=6.3 *12* B(E2)↑: from Coul. ex. Jπ: E2 γ to 22^+ and g.s. band member.
4039.0[@] *20*	26^+	0.33[#] ps *9*	O	B(E2)↑=6.3 *16* B(E2)↑: from Coul. ex. Jπ: E2 γ to 24^+ and g.s. band member.
4549.0[@] *22*	28^+	0.17[#] ps *7*	O	B(E2)↑=10 *4* B(E2)↑: from Coul. ex. Jπ: E2 γ to 26^+ and g.s. band member.
5077[@] *4*	(30^+)		O	Jπ: member of g.s. band member.

[†] Deduced by evaluator from a least-squares fit to adopted γ-ray energies.
[‡] From Recoil Distance Doppler Method (RDDM) in Coul. ex.
[#] From B(E2) in Coul. ex.
[@] Band(A): $K^\pi=0^+$ g.s. Rotational band.
[&] Band(B): $K^\pi=0^-$ Octupole vibrational band.
[a] Band(C): $K^\pi=3^-$ Configuration=((ν 7/2(743))-(ν 1/2(631))).
[b] Band(D): $K^\pi=6^-$ Configuration=((ν 7/2(743))+(ν 5/2(622))).
[c] Band(E): $K^\pi=0^+$.
[d] Band(F): $K^\pi=(2^+)$.
[e] Band(G): $K^\pi=1^-$ Configuration=((ν 7/2(743))-(ν 5/2(622))).
[f] Band(H): $K^\pi=4^-$ Configuration=((ν 7/2(743))+(ν 1/2(631))).
[g] Band(I): $K^\pi=2^-$.
[h] g.s. band in second potential well with inertia constant A=3.36 keV *1* following E=AJ(J+1).
[i] From (d,pγ). Based on ce cascade interpreted as rotational band (in second minimum) built on fission isomer.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{236}U Levels (continued)

[j] J^{π} from $\gamma'(\theta)$ in ^{236}U(γ,γ').
[k] From cross section signature in ^{235}U(d,p).
[l] (M1) γ rays to g.s. ($J^{\pi}=0^{+}$) and 45.2-keV level ($J^{\pi}=2^{+}$).

Adopted Levels, Gammas (continued)

γ(^{236}U)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
45.2431	2+	45.243 *2*	100	0.0	0+	E2[b]	589 *8*	α(L)=429 *6*; α(M)=118.6 *17*; α(N)=32.1 *5*; α(O)=7.36 *10*; α(P)=1.191 *17*; α(Q)=0.00285 *4* B(E2)(W.u.)=248 *8* Mult.: from ^{236}Np ε decay (22.5 h) and ^{240}Pu α decay. E_γ: weighted average of 45.29 *6* (1956Ho54); 45.3 *2* (1959Tr37); 45.273 *20* (1971Cl03,1972ClZS); 45.242 *6* (1972Sc01); 45.232 *5* (1971GuZY,1976GuZN); 45.244 *2* (1981He16) and 45.23 *3* (1983Ah02); others: 44.2 *1* (1956Gr11); 45.62 *1* (1958Sa21); 45.32 (1959Ga13) and 45.28 (1968Du06).
149.480	4+	104.237 *4*	100	45.2431	2+	E2[b]	10.99 *15*	α(L)=8.00 *11*; α(M)=2.220 *31*; α(N)=0.603 *8*; α(O)=0.1385 *19*; α(P)=0.02268 *32* α(Q)=9.41×10^{-5} *13* B(E2)(W.u.)=340 *24* Mult.: from ^{236}Np ε decay (155×10^3 y). E_γ: weighted average of 104.244 *5* (1971GuZY,1976GuZN), 104.233 *5* (1972Sc01), 104.234 *6* (1981He16,1986He12); others: 103.95 *50* (1958Sa21), 103.6 *3* (1959Tr37), 104.15 *2* (1971Cl03,1972ClZS) and 104.23 *2* (1983Ah02).
309.788	6+	160.308 *3*	100	149.480	4+	E2[b]	1.761 *25*	α(K)=0.2079 *29*; α(L)=1.132 *16*; α(M)=0.313 *4*; α(N)=0.0850 *12*; α(O)=0.01958 *27* α(P)=0.00325 *5*; α(Q)=2.327×10^{-5} *33* B(E2)(W.u.)=385 *21* Mult.: from ^{236}Np ε decay (155×10^3 y). E_γ: weighted average of 160.280 *15* (1971GuZY,1976GuZN), 160.310 *8* (1972Sc01), 160.312 *10* (1975OtZX), 160.308 *3* (1981He16,1986He12), others: 160.0 *15* (1959Tr37), 160.27 *2* (1971Cl03,1972ClZS) and 160.33 *2* (1983Ah02).
522.26	8+	212.47 *4*	100	309.788	6+	E2[b]	0.599 *8*	α(K)=0.1400 *20*; α(L)=0.335 *5*; α(M)=0.0920 *13*; α(N)=0.02498 *35*; α(O)=0.00577 *8* α(P)=0.000968 *14*; α(Q)=1.068×10^{-5} *15* B(E2)(W.u.)=3.9×10^2 *4* E_γ: weighted average of 212.48 *5* (1975OtZX) and 212.46 *5* (1982Ow01).
687.56	1−	538.09 *7*	1.14 *8*	149.480	4+	E3	0.20 *8*	α(K)exp=0.11 *5* α(K)=0.0623 *9*; α(L)=0.0587 *8*; α(M)=0.01603 *22*; α(N)=0.00437 *6*; α(O)=0.001025 *14* α(P)=0.0001801 *25*; α(Q)=4.97×10^{-6} *7* B(E3)(W.u.)=56 *5* Mult.: from α(L1+L2)exp=0.086 *27* (1969Le05) and α(K)exp=0.11 *5* (1983Fa15). E_γ: weighted average of 538.25 *20* (1969Le05), 538.09 *15* (1975OtZX), 537.92 *20* (1977Po05) and 538.1 *1* (1984Mi02). α: from the summation of α(L1+L2)exp in 1969Le05 and α(K)exp in 1983Fa15 with additional 10% uncertainty for higher shells; α(K)exp=0.11 *5* (1983Fa15). I_γ: weighted average of 1.11 *12* (1969Le05) 1.1 *1* (1975OtZX), 1.6 *6* (1977Po05) and 1.6 *3* (1984Mi02).
		642.23 *7*	100 *5*	45.2431	2+	E1(+M2+E3)	0.15 *2*	α(K)exp=0.111 *10*; α(L)exp=0.031 *9* α(K)=0.0091 *23*; α(L)=0.0017 *6*; α(M)=4.2×10^{-4} *14*; α(N)=1.1×10^{-4} *4*; α(O)=2.7×10^{-5} *9* α(P)=5.2×10^{-6} *17*; α(Q)=3.9×10^{-7} *13* B(E1)(W.u.)=5.81×10^{-8} *22* Mult.: from α(K)exp=0.112 *10*, α(K)/α(L)=3.59 *11*, α(L1)/α(L2)=11 *4*,

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						α(L1+L2)/α(L3)=36 *+10−7* (1969Le05); α(K)exp=0.11 *3*, α(L)exp=0.031 *9*, α(K)/α(L)=3.56 *50* (1977Po05); α(K)exp=0.11 *1*, α(L1)exp=0.032 *3*, α(L2)exp=0.0034 *4*, α(L3)exp=0.0016 *11*, α(M1)exp=0.0058 *7*, Anomalous conversion due to penetration effect. The M2 and E3 admixtures are smalls (1983Fa15). E_γ: weighted average of 642.42 *10* (1969Le05), 642.06 *17* (1969BaZW), 642.48 *15* (1971Cl03,1972ClZS), 641.8 *1* (1972MaYR), 642.2 *1* (1973Gr20), 642.3 *3* (1973Or06), 642.33 *10* (1975OtZX), 642.24 *10* (1977Po05) and 642.3 *1* (1984Mi02). α: from the summation all subshell αs in 1983Fa15 with additional 5% uncertainty for higher shells; α(K)exp=0.111 *10* from weighted average of 0.112 *10* (1969Le05), 0.11 *3* (1977Po05) and 0.11 *1* (1983Fa15); α(L)exp=0.031 *9* (1977Po05).
687.59 *6*	27.4 *5*	0.0	0^+	E1	0.31 *2*	α(K)exp=0.219 *14*; α(L)exp=0.069 *9* α(K)=0.00596 *8*; α(L)=0.001038 *15*; α(M)=0.0002473 *35*; α(N)=6.63×10^{-5} *9* α(O)=1.599×10^{-5} *22*; α(P)=3.03×10^{-6} *4*; α(Q)=2.237×10^{-7} *31* B(E1)(W.u.)=2.59×10^{-8} *8* Mult.: from α(K)exp=0.22 *2*, α(K)/α(L)=3.26 *16*, α(L1)/α(L2)=7 *3*, α(L1+L2)/α(L3)=46 *+40−20* (1969Le05); α(K)exp=0.219 *14*, α(L)exp=0.069 *9*, α(K)/α(L)=3.19 *38* (1977Po05); α(L1)exp=0.059 *3*, α(L2)exp=0.0129 *15*, α(L3)exp=0.0016 *11*, α(M1)exp=0.0195 *23*, Anomalous conversion due to

Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
								penetration effects. The M2 and E3 admixtures are small (1983Fa15). E_γ: Weighted average of 687.71 *10* (1969Le05), 687.39 *17* (1969BaZW), 688.01 *15* (1971Cl03,1972ClZS), 687.5 *10* (1972MaYR), 687.5 *1* (1973Gr20), 687.6 *3* (1973Or06), 687.57 *16* (1975OtZX), 687.52 *10* (1977Po05) and 687.5 *1* (1984Mi02). α: from the summation all subshell αs in 1983Fa15 with additional 5% uncertainty for higher shells; α(K)exp=0.219 *14* from weighted average of 0.22 *2* (1969Le05) and 0.219 *14* (1977Po05); α(L)exp=0.069 *9* (1977Po05). I_γ: weighted average of 26.5 *5* (1969Le05), 28.5 *5* (1971GuZY,1976GuZN), 24.8 *36* (1973Or06), 21 *3* (1973Gr20), 26.2 *7* (1975OtZX), 29.4 *9* (1977Po05), 26.8 *20* (1984Mi02) and 29 *4* (1979McZP).
744.18	3^-	56.6 *8*	≈5	687.56	1^-	[E2]	199 *14*	α(L)=145 *11*; α(M)=40.1 *29*; α(N)=10.9 *8*; α(O)=2.50 *18*; α(P)=0.405 *29*; α(Q)=0.00107 *7* E_γ: from ^{236}U(d,pnγ), uncertainty deduced from level energy difference, I_γ: deduced from γ-ray intensity balance in ^{236}Pa β^- decay; other: Iγ≥5 from ^{236}U(d,pnγ).
		594.5 *3*	100	149.480	4^+	[E1]	0.00964 *14*	α(K)=0.00781 *11*; α(L)=0.001381 *19*; α(M)=0.000330 *5*; α(N)=8.83×10^{-5} *12* α(O)=2.128×10^{-5} *30*; α(P)=4.01×10^{-6} *6*; α(Q)=2.91×10^{-7} *4* E_γ: from ^{236}Pa β^- decay.
782.4	10^+	260.1 *5*	100	522.26	8^+	E2[b]	0.297 *5*	α(K)=0.0979 *14*; α(L)=0.1456 *23*; α(M)=0.0397 *6*; α(N)=0.01078 *17*; α(O)=0.00250 *4* α(P)=0.000423 *7*; α(Q)=6.40×10^{-6} *9* B(E2)(W.u.)=3.6×10^2 *4* E_γ: from Coul. ex.
848.3	5^-	≈103.4[&]	100[&]	744.18	3^-	(E2)[b]	11.41 *16*	α(L)≈8.31; α(M)≈2.305; α(N)≈0.626; α(O)≈0.1438; α(P)≈0.02355 α(Q)≈9.69×10^{-5}
919.18	0^+	873.98 *12*	100	45.2431	2^+	[E2]	0.01439 *20*	α(K)=0.01060 *15*; α(L)=0.00283 *4*; α(M)=0.000711 *10*; α(N)=0.0001917 *27* α(O)=4.58×10^{-5} *6*; α(P)=8.47×10^{-6} *12*; α(Q)=4.85×10^{-7} *7* E_γ: weighted average of 874.1 *2* (1984Mi02) and 873.92 *15* (1975OtZX).
		918.9[‡] *3*		0.0	0^+	(E0)[c]		
957.90	2^+	912.4[‡] *3*	≈71[‡]	45.2431	2^+	[M1+E2]	0.032 *18*	α(K)=0.025 *15*; α(L)=0.0050 *25*; α(M)=0.0012 *6*; α(N)=3.3×10^{-4} *16*; α(O)=8.E−5 *4* α(P)=1.5×10^{-5} *8*; α(Q)=1.1×10^{-6} *7*
		958.0[‡] *2*	100[‡]	0.0	0^+	[E2]	0.01204 *17*	α(K)=0.00902 *13*; α(L)=0.002264 *32*; α(M)=0.000565 *8*; α(N)=0.0001522 *21*

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Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α	Comments
									α(O)=3.64×10^{-5} *5*; α(P)=6.77×10^{-6} *9*; α(Q)=4.08×10^{-7} *6* E_γ: from ^{236}Pa β^- decay. I_γ: From ^{235}U(n,γ) E=thermal.
960.05	(2$^+$)	≈810.9‡	≈68‡	149.480	4$^+$				
		914.8‡ *2*	100‡	45.2431	2$^+$	(E0+M1)[c]			
		≈959.9‡	≈80‡	0.0	0$^+$				
966.58	(1$^-$)	222.4 *1*	<23	744.18	3$^-$				
		279.0† *1*	58† *3*	687.56	1$^-$				
		921.2† *2*	44† *11*	45.2431	2$^+$	(E1)[c]		0.00432 *6*	α(K)=0.00353 *5*; α(L)=0.000599 *8*; α(M)=0.0001423 *20*; α(N)=3.81×10^{-5} *5*; α(O)=9.22×10^{-6} *13* α(P)=1.757×10^{-6} *25*; α(Q)=1.345×10^{-7} *19*
		966.8† *2*	100† *9*	0.0	0$^+$	(E1)[c]		0.00397 *6*	α(K)=0.00325 *5*; α(L)=0.000549 *8*; α(M)=0.0001302 *18*; α(N)=3.49×10^{-5} *5*; α(O)=8.44×10^{-6} *12* α(P)=1.610×10^{-6} *23*; α(Q)=1.239×10^{-7} *17*
987.66	2$^-$	243.6† *2*	26† *3*	744.18	3$^-$	M1+E2[c]	1.5 *4*	0.81 *21*	α(K)=0.51 *19*; α(L)=0.216 *13*; α(M)=0.0564 *23*; α(N)=0.0153 *6*; α(O)=0.00360 *17* α(P)=0.00064 *4*; α(Q)=2.6×10^{-5} *9* Mult.,δ: from ce measurements in (n,γ), E=thermal.
		300.0† *1*	17† *3*	687.56	1$^-$	[M1+E2]		0.6 *4*	α(K)=0.4 *4*; α(L)=0.12 *4*; α(M)=0.030 *7*; α(N)=0.0081 *20*; α(O)=0.0019 *5*; α(P)=3.6×10^{-4} *11* α(Q)=2.1×10^{-5} *16*
		942.4† *2*	100† *7*	45.2431	2$^+$	(E1)[c]		0.00415 *6*	α(K)=0.00339 *5*; α(L)=0.000575 *8*; α(M)=0.0001365 *19*; α(N)=3.66×10^{-5} *5*; α(O)=8.85×10^{-6} *12* α(P)=1.686×10^{-6} *24*; α(Q)=1.294×10^{-7} *18*
999.8	7$^-$	151.5[a] *5*	100[a]	848.3	5$^-$	E2[b]		2.21 *4*	α(K)=0.2183 *31*; α(L)=1.455 *30*; α(M)=0.403 *8*; α(N)=0.1093 *22*; α(O)=0.0252 *5* α(P)=0.00417 *8*; α(Q)=2.75×10^{-5} *5*
1001.6	(3$^+$)	≈258.4‡		744.18	3$^-$				
		≈852.2‡	≈13‡	149.480	4$^+$				
		956.3‡ *3*	100‡ *12*	45.2431	2$^+$				
1035.6	3$^-$	≈886.2‡	100‡	149.480	4$^+$	[E1]		0.00463 *6*	α(K)≈0.00378; α(L)≈0.000643; α(M)≈0.0001528; α(N)≈4.09×10^{-5} α(O)≈9.90×10^{-6}; α(P)≈1.885×10^{-6}; α(Q)≈1.437×10^{-7}
		≈990.2‡	≈88‡	45.2431	2$^+$	[E1]		0.00381 *5*	α(K)≈0.00311; α(L)≈0.000526; α(M)≈0.0001247; α(N)≈3.34×10^{-5} α(O)≈8.09×10^{-6}; α(P)≈1.543×10^{-6}; α(Q)≈1.190×10^{-7}
1050.86	(4$^+$)	901.25‡ *17*		149.480	4$^+$	(E0+E2)			
		1006.0‡ *3*	100‡	45.2431	2$^+$			0.01097 *15*	

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Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	δ	α	Comments
1052.9	4⁻	(≈65)		987.66	2⁻	(E2)[c]		102.4 *14*	α(L)≈74.6; α(M)≈20.66; α(N)≈5.61; α(O)≈1.286; α(P)≈0.2088 α(Q)≈0.000597
		204.6 *10*	100 *15*	848.3	5⁻	(E2)[c]		0.687 *16*	α(K)=0.1490 *24*; α(L)=0.393 *10*; α(M)=0.1080 *27*; α(N)=0.0293 *7*; α(O)=0.00678 *17* α(P)=0.001134 *29*; α(Q)=1.179×10^{-5} *23* E_γ,I_γ: from delayed Iγ in ^{235}U(n,γ) E=thermal.
		307.9 *10*	90 *15*	744.18	3⁻	M1+E2[c]	1.3 *5*	0.46 *18*	α(K)=0.32 *16*; α(L)=0.100 *16*; α(M)=0.0256 *34*; α(N)=0.0069 *9*; α(O)=0.00165 *24* α(P)=0.00030 *5*; α(Q)=1.6×10^{-5} *7* E_γ,I_γ: from delayed Iγ in ^{235}U(n,γ) E=thermal. Mult.,δ: from ce measurements in (n,γ), E=thermal.
		903.6 *4*	41 *7*	149.480	4⁺	(E1)[c]		0.00447 *6*	α(K)=0.00365 *5*; α(L)=0.000621 *9*; α(M)=0.0001474 *21*; α(N)=3.95×10^{-5} *6*; α(O)=9.55×10^{-6} *13* α(P)=1.819×10^{-6} *26*; α(Q)=1.390×10^{-7} *19* I_γ: from delayed Iγ in ^{235}U(n,γ) E=thermal.
1058.8	(4⁺)	909.3‡ *3*	100‡ *9*	149.480	4⁺	M1[c]		0.0505 *7*	α(K)=0.0404 *6*; α(L)=0.00760 *11*; α(M)=0.001830 *26*; α(N)=0.000493 *7* α(O)=0.0001198 *17*; α(P)=2.313×10^{-5} *32*; α(Q)=1.852×10^{-6} *26*
		1014.1‡	≈69‡	45.2431	2⁺				
1070.0	(4⁻)	920.5‡	100‡	149.480	4⁺				
1085.4	12⁺	303.0@ *5*	100@	782.4	10⁺	E2[b]		0.1826 *27*	α(K)=0.0736 *11*; α(L)=0.0798 *12*; α(M)=0.02163 *33*; α(N)=0.00587 *9*; α(O)=0.001364 *21* α(P)=0.000233 *4*; α(Q)=4.44×10^{-6} *6* B(E2)(W.u.)=4.1×10^{2} *7*
1110.66	(2⁻)	366.6† *1*	82† *9*	744.18	3⁻				
		423.1† *1*	100† *5*	687.56	1⁻				
		1065.0† *2*	34† *4*	45.2431	2⁺				
1127.38	(5⁺)	977.9‡ *2*	100‡	149.480	4⁺				
1149.4	(3⁻)	405.2‡	100‡	744.18	3⁻				
1198.6	9⁻	198.8[a] *3*	100[a]	999.8	7⁻	E2[b]		0.764 *12*	α(K)=0.1561 *22*; α(L)=0.444 *7*; α(M)=0.1222 *19*; α(N)=0.0332 *5*; α(O)=0.00766 *12* α(P)=0.001281 *20*; α(Q)=1.273×10^{-5} *19*
1271.10	(1⁻,2,3)	526.7† *2*	39† *4*	744.18	3⁻				
		1225.9† *1*	100† *8*	45.2431	2⁺				
1426.4	14⁺	341.0@ *5*	100@	1085.4	12⁺	E2[b]		0.1285 *19*	α(K)=0.0589 *8*; α(L)=0.0511 *8*; α(M)=0.01375 *21*; α(N)=0.00373 *6*; α(O)=0.000869 *13* α(P)=0.0001497 *22*; α(Q)=3.38×10^{-6} *5* B(E2)(W.u.)=4.5×10^{2} *5*
1443.6	11⁻	245.0[a] *5*	100[a]	1198.6	9⁻	E2[b]		0.363 *6*	α(K)=0.1091 *16*; α(L)=0.1855 *30*; α(M)=0.0507 *8*;

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Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
								α(N)=0.01377 *23*; α(O)=0.00319 *5* α(P)=0.000538 *9*; α(Q)=7.42×10^{-6} *11*
1580?	(1,2)	1580[&h] *11*	[&]	0.0	0$^+$			
1604.80	(1$^-$,2$^+$)	333.7[†] *1*	37[†] *2*	1271.10	(1$^-$,2,3)			
		617.1[†] *2*	9.5[†] *20*	987.66	2$^-$			
		860.6[†] *1*	35[†] *1*	744.18	3$^-$			
		917.0[†] *3*	62[†] *4*	687.56	1$^-$			
		1559.6[†] *1*	100[†] *9*	45.2431	2$^+$			
		1604.9[†] *2*	18[†] *5*	0.0	0$^+$			
1662.36	(1,2$^+$)	674.5[†] *2*	23[†] *8*	987.66	2$^-$			
		975.0[†] *2*	21[†] *5*	687.56	1$^-$			
		1617.1[†] *1*	100[†] *9*	45.2431	2$^+$			
		1662.4[†] *2*	66[†] *7*	0.0	0$^+$			
1732.6	13$^-$	289[@] *1*	100[@]	1443.6	11$^-$	E2[b]	0.211 *4*	α(K)=0.0805 *12*; α(L)=0.0959 *19*; α(M)=0.0260 *5*; α(N)=0.00706 *14*; α(O)=0.001641 *32* α(P)=0.000280 *5*; α(Q)=4.97×10^{-6} *8*
1791.3	1$^{(+)}$	1746.1[#] *10*	38[#] *8*	45.2431	2$^+$	(M1)[d]	0.00926 *13*	α(K)=0.00717 *10*; α(L)=0.001332 *19*; α(M)=0.000320 *5*; α(N)=8.61×10^{-5} *12* α(O)=2.096×10^{-5} *30*; α(P)=4.05×10^{-6} *6*; α(Q)=3.27×10^{-7} *5*
		1791.3[#] *10*	100[#]	0.0	0$^+$	(M1)[d]	0.00870 *12*	α(K)=0.00669 *9*; α(L)=0.001243 *18*; α(M)=0.000299 *4*; α(N)=8.04×10^{-5} *11* α(O)=1.957×10^{-5} *28*; α(P)=3.78×10^{-6} *5*; α(Q)=3.05×10^{-7} *4*
1801.0	16$^+$	374.6[@] *5*	100[@]	1426.4	14$^+$	E2[b]	0.0987 *14*	α(K)=0.0493 *7*; α(L)=0.0363 *5*; α(M)=0.00971 *14*; α(N)=0.00263 *4*; α(O)=0.000614 *9* α(P)=0.0001066 *16*; α(Q)=2.74×10^{-6} *4* B(E2)(W.u.)=3.8×10^2 *4*
1807.88	(1,2$^+$)	1762.7[†] *1*	100[†] *5*	45.2431	2$^+$			
		1807.8[†] *1*	37[†] *2*	0.0	0$^+$			
1865.39	(1,2$^+$)	1177.7[†] *2*	100[†] *14*	687.56	1$^-$			
		1865.5[†] *2*	67[†] *8*	0.0	0$^+$			
1972.62	(1,2$^+$)	1927.0[†] *2*	100[†] *7*	45.2431	2$^+$			
		1972.7[†] *1*	100[†] *9*	0.0	0$^+$			
1979.15	(1$^-$,2)	1234.9[†] *1*	100[†] *8*	744.18	3$^-$			
		1291.6[†] *1*	100[†] *8*	687.56	1$^-$			
		1934.1[†] *2*	98[†] *8*	45.2431	2$^+$			
1981.04	(1,2$^+$)	870.4[†] *2*	100[†] *9*	1110.66	(2$^-$)			

$^{236}_{92}U_{144}$-13

Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
1981.04	(1,2$^+$)	1023.1[†] *3*	84[†] *8*	957.90	2$^+$			
		1981.0[†] *3*	74[†] *7*	0.0	0$^+$			
2054.2	1$^{(+)}$	2009.0[#] *10*	75[#] *14*	45.2431	2$^+$	(M1)[d]	0.00668 *9*	α(K)=0.00492 *7*; α(L)=0.000913 *13*; α(M)=0.0002193 *31*; α(N)=5.90×10^{-5} *8* α(O)=1.436×10^{-5} *20*; α(P)=2.77×10^{-6} *4*; α(Q)=2.243×10^{-7} *32*
		2054.2[#] *10*	100[#]	0.0	0$^+$	(M1)[d]	0.00637 *9*	α(K)=0.00463 *7*; α(L)=0.000859 *12*; α(M)=0.0002065 *29*; α(N)=5.56×10^{-5} *8* α(O)=1.352×10^{-5} *19*; α(P)=2.61×10^{-6} *4*; α(Q)=2.113×10^{-7} *30*
2060.6	15$^-$	328[@] *1*	100[@]	1732.6	13$^-$	E2[e]	0.1439 *24*	α(K)=0.0634 *10*; α(L)=0.0591 *11*; α(M)=0.01593 *29*; α(N)=0.00432 *8*; α(O)=0.001006 *18* α(P)=0.0001729 *31*; α(Q)=3.70×10^{-6} *6*
2086.54	1$^{(-)}$	2041.3[†] *1*	100[†] *5*	45.2431	2$^+$	(E1)[d]	1.66×10^{-3} *2*	α(K)=0.000929 *13*; α(L)=0.0001512 *21*; α(M)=3.57×10^{-5} *5*; α(N)=9.57×10^{-6} *13* α(O)=2.325×10^{-6} *33*; α(P)=4.48×10^{-7} *6*; α(Q)=3.64×10^{-8} *5*
		2086.5[†] *2*	56[†] *5*	0.0	0$^+$	(E1)[d]	1.65×10^{-3} *2*	α(K)=0.000896 *13*; α(L)=0.0001458 *20*; α(M)=3.44×10^{-5} *5*; α(N)=9.22×10^{-6} *13* α(O)=2.242×10^{-6} *31*; α(P)=4.32×10^{-7} *6*; α(Q)=3.52×10^{-8} *5*
2095.7	1$^{(+)}$	2050.5[#] *10*	47[#] *15*	45.2431	2$^+$	(M1)[d]	0.00639 *9*	α(K)=0.00466 *7*; α(L)=0.000864 *12*; α(M)=0.0002075 *29*; α(N)=5.58×10^{-5} *8* α(O)=1.359×10^{-5} *19*; α(P)=2.63×10^{-6} *4*; α(Q)=2.123×10^{-7} *30*
		2095.7[#] *10*	100[#]	0.0	0$^+$	(M1)[d]	0.00610 *9*	α(K)=0.00439 *6*; α(L)=0.000814 *11*; α(M)=0.0001956 *27*; α(N)=5.26×10^{-5} *7* α(O)=1.281×10^{-5} *18*; α(P)=2.475×10^{-6} *35*; α(Q)=2.002×10^{-7} *28*
2155.40	(0,1,2)	550.6[†] *1*	100[†]	1604.80	(1$^-$,2$^+$)			
2188.8	1$^{(+)}$	2143.6[#] *10*	49[#] *3*	45.2431	2$^+$	(M1)[d]	0.00582 *8*	α(K)=0.00413 *6*; α(L)=0.000766 *11*; α(M)=0.0001840 *26*; α(N)=4.95×10^{-5} *7* α(O)=1.205×10^{-5} *17*; α(P)=2.328×10^{-6} *33*; α(Q)=1.884×10^{-7} *26*
		2188.8[#] *10*	100[#]	0.0	0$^+$	(M1)[d]	0.00558 *8*	α(K)=0.00391 *5*; α(L)=0.000724 *10*; α(M)=0.0001738 *24*; α(N)=4.68×10^{-5} *7* α(O)=1.139×10^{-5} *16*; α(P)=2.200×10^{-6} *31*; α(Q)=1.781×10^{-7} *25*
2190	(1,2$^+$)	2190[&] *30*	100[&]	0.0	0$^+$			
2204.0	18$^+$	403.0[@] *5*	100[@]	1801.0	16$^+$	E2[e]	0.0811 *12*	α(K)=0.0430 *6*; α(L)=0.0280 *4*; α(M)=0.00746 *11*; α(N)=0.002021 *30*; α(O)=0.000473 *7* α(P)=8.25×10^{-5} *12*; α(Q)=2.330×10^{-6} *33* B(E2)(W.u.)=4.9×10^2 *5*
2226.9?	(0,1,2)	2181.6[†] *3*	100[†]	45.2431	2$^+$			
2243.9	1	2243.9[#] *10*	100[#]	0.0	0$^+$			
2251.1	1$^{(+)}$	2205.9[#] *10*	100[#]	45.2431	2$^+$			

$^{236}_{92}U_{144}$-14

Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
2251.1	$1^{(+)}$	2251.1# *10*	96# *13*	0.0	0^+			
2284.7	$1^{(+)}$	2239.5# *10*	51# *7*	45.2431	2^+	(M1)[d]	0.00533 *7*	α(K)=0.00367 *5*; α(L)=0.000680 *10*; α(M)=0.0001634 *23*; α(N)=4.40×10^{-5} *6* α(O)=1.070×10^{-5} *15*; α(P)=2.068×10^{-6} *29*; α(Q)=1.674×10^{-7} *24*
		2284.7# *10*	100#	0.0	0^+	(M1)[d]	0.00512 *7*	α(K)=0.00348 *5*; α(L)=0.000644 *9*; α(M)=0.0001547 *22*; α(N)=4.17×10^{-5} *6* α(O)=1.014×10^{-5} *14*; α(P)=1.959×10^{-6} *28*; α(Q)=1.586×10^{-7} *22*
2426.6	17^-	366@ *1*	100@	2060.6	15^-	E2[e]	0.1052 *17*	α(K)=0.0515 *8*; α(L)=0.0394 *7*; α(M)=0.01057 *18*; α(N)=0.00286 *5*; α(O)=0.000669 *12* α(P)=0.0001158 *20*; α(Q)=2.88×10^{-6} *4*
2435.6	$1^{(+)}$	2390.4# *10*	34# *7*	45.2431	2^+	(M1)[d]	0.00471 *7*	α(K)=0.00308 *4*; α(L)=0.000570 *8*; α(M)=0.0001368 *19*; α(N)=3.68×10^{-5} *5*; α(O)=8.96×10^{-6} *13* α(P)=1.732×10^{-6} *24*; α(Q)=1.404×10^{-7} *20*
		2435.6# *10*	100#	0.0	0^+	(M1)[d]	0.00456 *6*	α(K)=0.00292 *4*; α(L)=0.000541 *8*; α(M)=0.0001300 *18*; α(N)=3.50×10^{-5} *5*; α(O)=8.52×10^{-6} *12* α(P)=1.646×10^{-6} *23*; α(Q)=1.334×10^{-7} *19*
2440.2	$1^{(+)}$	2395.0# *10*	26# *7*	45.2431	2^+	(M1)[d]	0.00470 *7*	α(K)=0.00306 *4*; α(L)=0.000567 *8*; α(M)=0.0001361 *19*; α(N)=3.66×10^{-5} *5*; α(O)=8.92×10^{-6} *13* α(P)=1.723×10^{-6} *24*; α(Q)=1.396×10^{-7} *20*
		2440.2# *10*	100#	0.0	0^+	(M1)[d]	0.00455 *6*	α(K)=0.00291 *4*; α(L)=0.000539 *8*; α(M)=0.0001293 *18*; α(N)=3.48×10^{-5} *5*; α(O)=8.47×10^{-6} *12* α(P)=1.637×10^{-6} *23*; α(Q)=1.328×10^{-7} *19*
2457.3	$1^{(+)}$	2412.1# *10*	50# *9*	45.2431	2^+	(M1)[d]	0.00464 *7*	α(K)=0.00300 *4*; α(L)=0.000556 *8*; α(M)=0.0001335 *19*; α(N)=3.59×10^{-5} *5*; α(O)=8.75×10^{-6} *12* α(P)=1.690×10^{-6} *24*; α(Q)=1.370×10^{-7} *19*
		2457.3# *10*	100#	0.0	0^+	(M1)[d]	0.00449 *6*	α(K)=0.00285 *4*; α(L)=0.000528 *7*; α(M)=0.0001269 *18*; α(N)=3.42×10^{-5} *5*; α(O)=8.31×10^{-6} *12* α(P)=1.607×10^{-6} *23*; α(Q)=1.303×10^{-7} *18*
2494.5	$1^{(+)}$	2449.3# *10*	29# *8*	45.2431	2^+	(M1)[d]	0.00452 *6*	α(K)=0.00288 *4*; α(L)=0.000533 *7*; α(M)=0.0001280 *18*; α(N)=3.45×10^{-5} *5*; α(O)=8.39×10^{-6} *12* α(P)=1.621×10^{-6} *23*; α(Q)=1.314×10^{-7} *18*
		2494.5# *10*	100#	0.0	0^+	(M1)[d]	0.00438 *6*	α(K)=0.00274 *4*; α(L)=0.000507 *7*; α(M)=0.0001218 *17*; α(N)=3.28×10^{-5} *5*; α(O)=7.98×10^{-6} *11* α(P)=1.542×10^{-6} *22*; α(Q)=1.251×10^{-7} *18*
2498.5	$1^{(+)}$	2453.3# *10*	66# *12*	45.2431	2^+	(M1)[d]	0.00451 *6*	α(K)=0.00287 *4*; α(L)=0.000531 *7*; α(M)=0.0001275 *18*; α(N)=3.43×10^{-5} *5*; α(O)=8.35×10^{-6} *12* α(P)=1.614×10^{-6} *23*; α(Q)=1.308×10^{-7} *18*
		2498.5# *10*	100#	0.0	0^+	(M1)[d]	0.00437 *6*	α(K)=0.00273 *4*; α(L)=0.000505 *7*; α(M)=0.0001213 *17*; α(N)=3.26×10^{-5} *5*; α(O)=7.95×10^{-6} *11* α(P)=1.535×10^{-6} *22*; α(Q)=1.245×10^{-7} *17*

$^{236}_{92}U_{144}$-15

Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
2631.8	20^+	427.8[@] *5*	100[@]	2204.0	18^+	E2[e]	0.0694 *10*	α(K)=0.0385 *5*; α(L)=0.02281 *33*; α(M)=0.00605 *9*; α(N)=0.001638 *24*; α(O)=0.000384 *6* α(P)=6.73×10^{-5} *10*; α(Q)=2.047×10^{-6} *29* B(E2)(W.u.)=5.1×10^2 *8*
2699.0	$1^{(+)}$	2653.8[#] *10*	62[#] *10*	45.2431	2^+	(M1)[d]	0.00398 *6*	α(K)=0.002315 *32*; α(L)=0.000428 *6*; α(M)=0.0001028 *14*; α(N)=2.77×10^{-5} *4* α(O)=6.74×10^{-6} *9*; α(P)=1.302×10^{-6} *18*; α(Q)=1.057×10^{-7} *15*
		2699.0[#] *10*	100[#]	0.0	0^+	(M1)[d]	0.00388 *5*	α(K)=0.002210 *31*; α(L)=0.000409 *6*; α(M)=9.82×10^{-5} *14*; α(N)=2.64×10^{-5} *4*; α(O)=6.43×10^{-6} *9* α(P)=1.243×10^{-6} *17*; α(Q)=1.009×10^{-7} *14*
2712.1	$1^{(-)}$	2666.9[#] *10*	100[#] *12*	45.2431	2^+	(E1)	1.67×10^{-3} *2*	α(K)=0.000603 *8*; α(L)=9.74×10^{-5} *14*; α(M)=2.296×10^{-5} *32*; α(N)=6.15×10^{-6} *9* α(O)=1.497×10^{-6} *21*; α(P)=2.89×10^{-7} *4*; α(Q)=2.378×10^{-8} *33*
		2712.1[#] *10*	44[#] *8*	0.0	0^+	(E1)	1.68×10^{-3} *2*	α(K)=0.000587 *8*; α(L)=9.47×10^{-5} *13*; α(M)=2.234×10^{-5} *31*; α(N)=5.99×10^{-6} *8* α(O)=1.456×10^{-6} *20*; α(P)=2.81×10^{-7} *4*; α(Q)=2.315×10^{-8} *32*
2750	(0^+)	560[&] *10*	12[&]	2190	$(1,2^+)$	(E1)[g]	0.0108 *4*	α(K)=0.00875 *33*; α(L)=0.00156 *6*; α(M)=0.000372 *15*; α(N)=0.000100 *4*; α(O)=2.40×10^{-5} *10* α(P)=4.52×10^{-6} *18*; α(Q)=3.24×10^{-7} *12* B(E1)(W.u.)=5.6×10^{-10} *4*
		1170[&] *10*	20[&]	1580?	(1,2)	(E1)[g]	0.00286 *6*	α(K)=0.00234 *5*; α(L)=0.000390 *8*; α(M)=9.25×10^{-5} *19*; α(N)=2.48×10^{-5} *5*; α(O)=6.00×10^{-6} *12* α(P)=1.149×10^{-6} *24*; α(Q)=9.00×10^{-8} *18* B(E1)(W.u.)=1.02×10^{-10} *5*
		1783[&] *10*	100[&]	966.58	(1^-)	(E1)	1.76×10^{-3} *3*	α(K)=0.001159 *19*; α(L)=0.0001895 *32*; α(M)=4.48×10^{-5} *8*; α(N)=1.200×10^{-5} *20* α(O)=2.91×10^{-6} *5*; α(P)=5.60×10^{-7} *9*; α(Q)=4.53×10^{-8} *8* B(E1)(W.u.)=1.45×10^{-10} *6*
		2062[&] *10*	26[&]	687.56	1^-	(E1)	1.66×10^{-3} *2*	α(K)=0.000914 *15*; α(L)=0.0001487 *24*; α(M)=3.51×10^{-5} *6*; α(N)=9.41×10^{-6} *15* α(O)=2.29×10^{-6} *4*; α(P)=4.40×10^{-7} *7*; α(Q)=3.58×10^{-8} *6* B(E1)(W.u.)=2.43×10^{-11} *10*
2756.2	$1^{(+)}$	2711.0[#] *10*	55[#] *16*	45.2431	2^+	(M1)[d]	0.00386 *5*	α(K)=0.002184 *31*; α(L)=0.000404 *6*; α(M)=9.70×10^{-5} *14*; α(N)=2.61×10^{-5} *4*; α(O)=6.36×10^{-6} *9* α(P)=1.228×10^{-6} *17*; α(Q)=9.97×10^{-8} *14*
		2756.2[#] *10*	100[#]	0.0	0^+	(M1)[d]	0.00377 *5*	α(K)=0.002087 *29*; α(L)=0.000386 *5*; α(M)=9.27×10^{-5} *13*; α(N)=2.496×10^{-5} *35* α(O)=6.08×10^{-6} *9*; α(P)=1.174×10^{-6} *16*; α(Q)=9.53×10^{-8} *13*
2770	(2^+)	(20[&] *CA*)	100[&]	2750	(0^+)	(E2)[f]	1.96×10^4	α(L)=1.125×10^4 *16*; α(M)=6.23×10^3 *9*; α(N)=1686 *24*; α(O)=385

$^{236}_{92}U_{144}$-16

Adopted Levels, Gammas (continued)

γ(^{236}U) (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
								6; α(P)=61.9 *9*; α(Q)=0.1021 *15* α(N+..)=2.13×10^3 *3* E_γ: from level energy difference.
2817	(4$^+$)	47.0[&]	100[&]	2770	(2$^+$)	(E2)[f]	489 *7*	α(L)=357 *5*; α(M)=98.6 *14*; α(N)=26.7 *4*; α(O)=6.12 *9*; α(P)=0.990 *14*; α(Q)=0.002409 *34*
2823	(19$^-$)	≈396[@]	100[@]	2426.6	17$^-$	(E2)[e]	0.0849 *12*	α(K)≈0.0444; α(L)≈0.0298; α(M)≈0.00794; α(N)≈0.002152; α(O)≈0.000503 α(P)≈8.77×10^{-5}; α(Q)≈2.422×10^{-6}
2823.3	1$^{(+)}$	2778.1[#] *10*	97[#] *26*	45.2431	2$^+$	(M1)[d]	0.00373 *5*	α(K)=0.002042 *29*; α(L)=0.000378 *5*; α(M)=9.07×10^{-5} *13*; α(N)=2.442×10^{-5} *34* α(O)=5.94×10^{-6} *8*; α(P)=1.149×10^{-6} *16*; α(Q)=9.33×10^{-8} *13*
		2823.3[#] *10*	100[#]	0.0	0$^+$	(M1)[d]	0.00365 *5*	α(K)=0.001954 *27*; α(L)=0.000361 *5*; α(M)=8.68×10^{-5} *12*; α(N)=2.336×10^{-5} *33* α(O)=5.69×10^{-6} *8*; α(P)=1.099×10^{-6} *15*; α(Q)=8.93×10^{-8} *13*
2838.3	1$^{(+)}$	2793.1[#] *10*	100[#]	45.2431	2$^+$	(M1)[d]	0.00370 *5*	α(K)=0.002013 *28*; α(L)=0.000372 *5*; α(M)=8.94×10^{-5} *13*; α(N)=2.406×10^{-5} *34* α(O)=5.86×10^{-6} *8*; α(P)=1.132×10^{-6} *16*; α(Q)=9.19×10^{-8} *13*
		2838.3[#] *10*	92[#] *27*	0.0	0$^+$	(M1)[d]	0.00363 *5*	α(K)=0.001926 *27*; α(L)=0.000356 *5*; α(M)=8.55×10^{-5} *12*; α(N)=2.303×10^{-5} *32* α(O)=5.61×10^{-6} *8*; α(P)=1.083×10^{-6} *15*; α(Q)=8.80×10^{-8} *12*
2877.8	1$^{(-)}$	2832.6[#] *10*	100[#]	45.2431	2$^+$	(E1)[d]	1.70×10^{-3} *2*	α(K)=0.000547 *8*; α(L)=8.83×10^{-5} *12*; α(M)=2.081×10^{-5} *29*; α(N)=5.58×10^{-6} *8* α(O)=1.357×10^{-6} *19*; α(P)=2.62×10^{-7} *4*; α(Q)=2.161×10^{-8} *30*
		2877.8[#] *10*	45[#] *12*	0.0	0$^+$	(E1)[d]	1.71×10^{-3} *2*	α(K)=0.000534 *7*; α(L)=8.60×10^{-5} *12*; α(M)=2.028×10^{-5} *28*; α(N)=5.44×10^{-6} *8* α(O)=1.322×10^{-6} *19*; α(P)=2.55×10^{-7} *4*; α(Q)=2.108×10^{-8} *30*
2891	(6$^+$)	73.9[&]	100[&]	2817	(4$^+$)	(E2)[f]	55.5 *8*	α(L)=40.4 *6*; α(M)=11.20 *16*; α(N)=3.04 *4*; α(O)=0.697 *10*; α(P)=0.1135 *16*; α(Q)=0.000352 *5*
2924.0	(1,2$^+$)	2878.8 *10*	100	45.2431	2$^+$			
		2924.0 *10*	60 *17*	0.0	0$^+$			
2969.0	1$^{(+)}$	2923.8[#] *10*	50[#] *12*	45.2431	2$^+$	(M1)[d]	0.00350 *5*	α(K)=0.001775 *25*; α(L)=0.000328 *5*; α(M)=7.88×10^{-5} *11*; α(N)=2.122×10^{-5} *30* α(O)=5.17×10^{-6} *7*; α(P)=9.98×10^{-7} *14*; α(Q)=8.11×10^{-8} *11*
		2969.0[#] *10*	100[#]	0.0	0$^+$	(M1)[d]	0.00344 *5*	α(K)=0.001702 *24*; α(L)=0.000315 *4*; α(M)=7.56×10^{-5} *11*; α(N)=2.035×10^{-5} *29* α(O)=4.95×10^{-6} *7*; α(P)=9.57×10^{-7} *13*; α(Q)=7.78×10^{-8} *11*
2991	(8$^+$)	100.8[&]	[&]	2891	(6$^+$)	(E2)[f]	12.84 *18*	α(L)=9.35 *13*; α(M)=2.59 *4*; α(N)=0.705 *10*; α(O)=0.1619 *23*; α(P)=0.0265 *4* α(Q)=0.0001062 *15*

$^{236}_{92}U_{144}$-17

Adopted Levels, Gammas (continued)

$\gamma(^{236}U)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.	α	Comments
3081.0	22^+	449.2[@] *5*	100[@]	2631.8	20^+	E2[e]	0.0614 *9*	α(K)=0.0351 *5*; α(L)=0.01935 *28*; α(M)=0.00511 *7*; α(N)=0.001384 *20*; α(O)=0.000325 *5* α(P)=5.72×10^{-5} *8*; α(Q)=1.844×10^{-6} *26* B(E2)(W.u.)=5.2×10^{2} *12*
3143.8	$1^{(+)}$	3098.6[#] *10*	56[#] *14*	45.2431	2^+	(M1)[d]	0.00330 *5*	α(K)=0.001514 *21*; α(L)=0.000280 *4*; α(M)=6.72×10^{-5} *9*; α(N)=1.809×10^{-5} *25*; α(O)=4.40×10^{-6} *6* α(P)=8.51×10^{-7} *12*; α(Q)=6.92×10^{-8} *10*
		3143.8[#] *10*	100[#]	0.0	0^+	(M1)[d]	0.00326 *5*	α(K)=0.001454 *20*; α(L)=0.000269 *4*; α(M)=6.45×10^{-5} *9*; α(N)=1.738×10^{-5} *24*; α(O)=4.23×10^{-6} *6* α(P)=8.18×10^{-7} *11*; α(Q)=6.65×10^{-8} *9*
3434	(0^+)	684.5 *7*		2750	(0^+)	(E0)		E_γ,Mult.: from ^{236}U(d,pnγ).
3550.0	24^+	469[@] *1*	100[@]	3081.0	22^+	E2[e]	0.0552 *8*	α(K)=0.0324 *5*; α(L)=0.01678 *26*; α(M)=0.00442 *7*; α(N)=0.001196 *19*; α(O)=0.000281 *4* α(P)=4.96×10^{-5} *8*; α(Q)=1.682×10^{-6} *25* B(E2)(W.u.)=6.7×10^{2} *13*
4039.0	26^+	489[@] *1*	100[@]	3550.0	24^+	E2[e]	0.0498 *7*	α(K)=0.0300 *4*; α(L)=0.01465 *23*; α(M)=0.00385 *6*; α(N)=0.001041 *16*; α(O)=0.000245 *4* α(P)=4.34×10^{-5} *7*; α(Q)=1.541×10^{-6} *23* B(E2)(W.u.)=6.7×10^{2} *19*
4549.0	28^+	510[@] *1*	100[@]	4039.0	26^+	E2[e]	0.0451 *7*	α(K)=0.0278 *4*; α(L)=0.01281 *20*; α(M)=0.00335 *5*; α(N)=0.000907 *14*; α(O)=0.0002137 *33* α(P)=3.80×10^{-5} *6*; α(Q)=1.411×10^{-6} *21* B(E2)(W.u.)=1.1×10^{3} *5*
5077	(30^+)	≈528[@]	100[@]	4549.0	28^+	(E2)	0.0416 *6*	α(K)≈0.0261; α(L)≈0.01149; α(M)≈0.00300; α(N)≈0.000812 α(O)≈0.0001913; α(P)≈3.41×10^{-5}; α(Q)≈1.313×10^{-6} Mult.: from in-band transition of ground-state band in Coul. ex.

† From ^{236}Pa β^- decay.
‡ From ^{235}U(n,γ) E=thermal.
# From ^{236}U(γ,γ').
@ From Coulomb excitation.
& From ^{235}U(d,pγ).
a From ^{236}U(d,pnγ).
b From conversion electron subshell ratios in ^{236}U(d,pnγ).
c From conversion electron data in ^{235}U(n,γ) E=thermal.
d From $\gamma'(\theta)$ and systematics of branching ratios to the first $J^\pi=2^+$ excited states in ^{236}U(γ,γ').

$^{236}_{92}U_{144}$-18

Adopted Levels, Gammas (continued)

$\gamma(^{236}U)$ (continued)

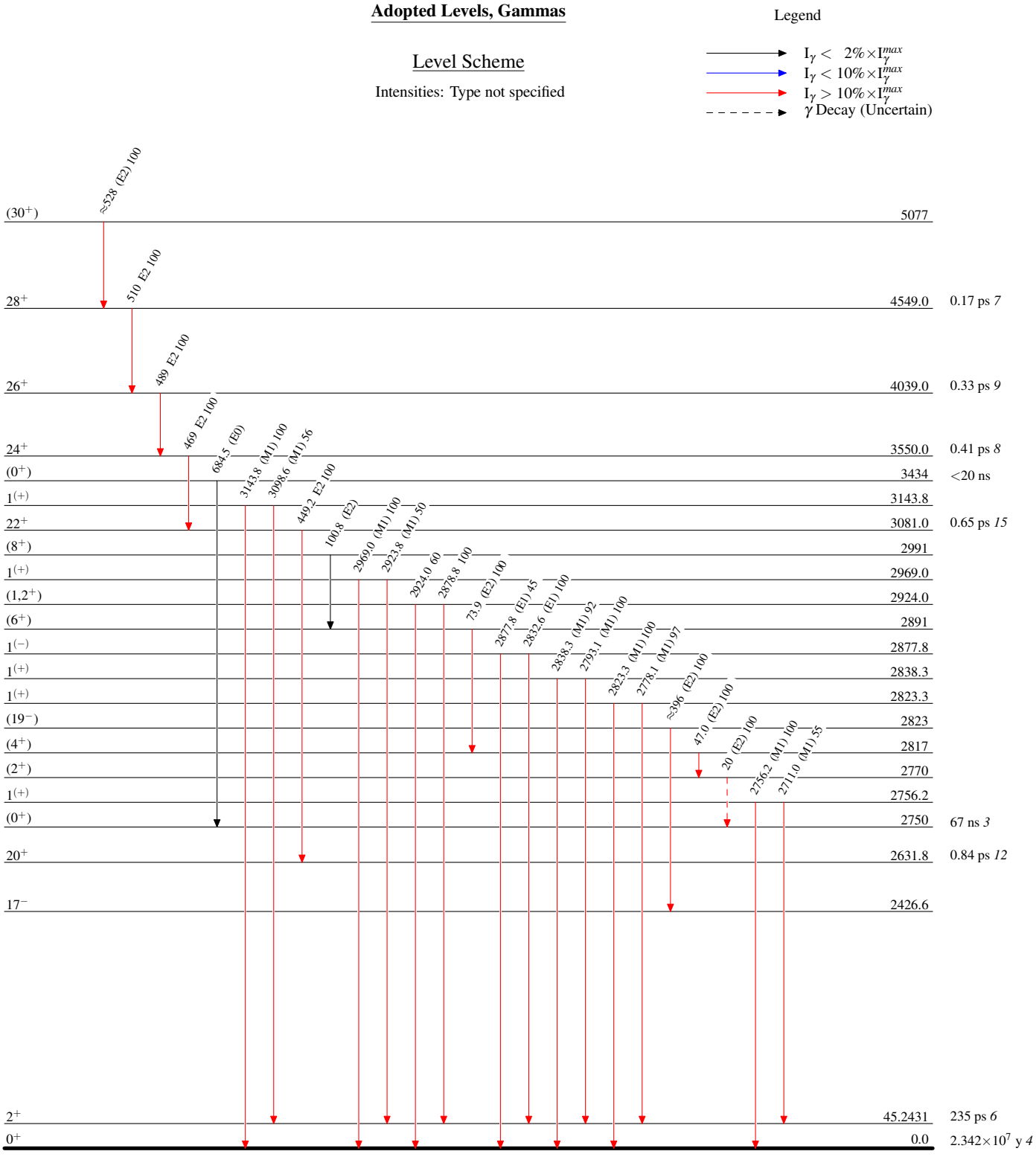
[e] From E2 matrix elements deduced in Coulomb excitation measurements.
[f] From in-band transition of rotational band in the second well of the nuclear potential in $^{235}U(d,p\gamma)$.
[g] From $\gamma\gamma$ angular correlations in $^{235}U(d,p\gamma)$.
[h] Placement of transition in the level scheme is uncertain.

$^{236}_{92}U_{144}$-19

Adopted Levels, Gammas

Level Scheme

Intensities: Type not specified

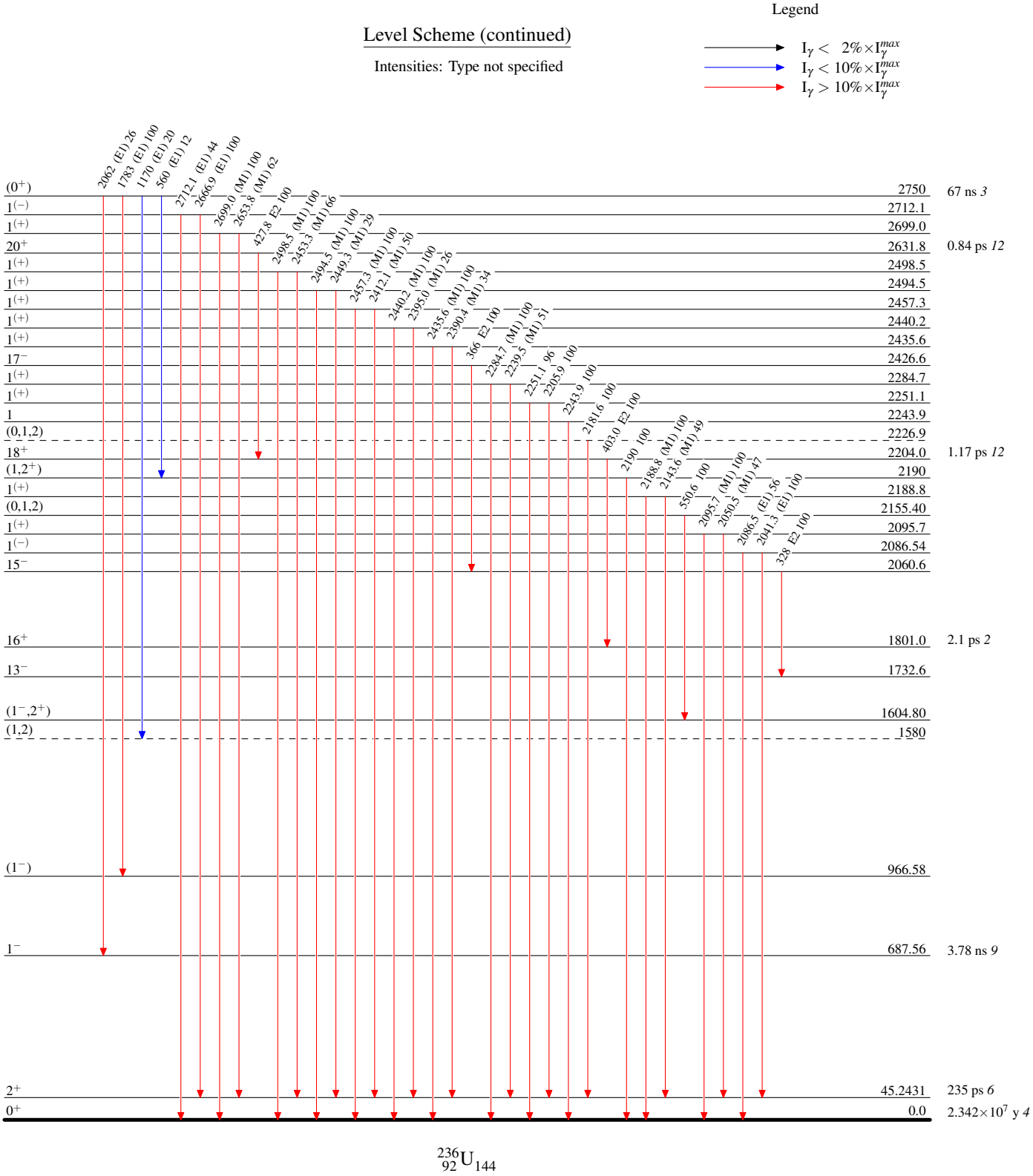


$^{236}_{92}U_{144}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

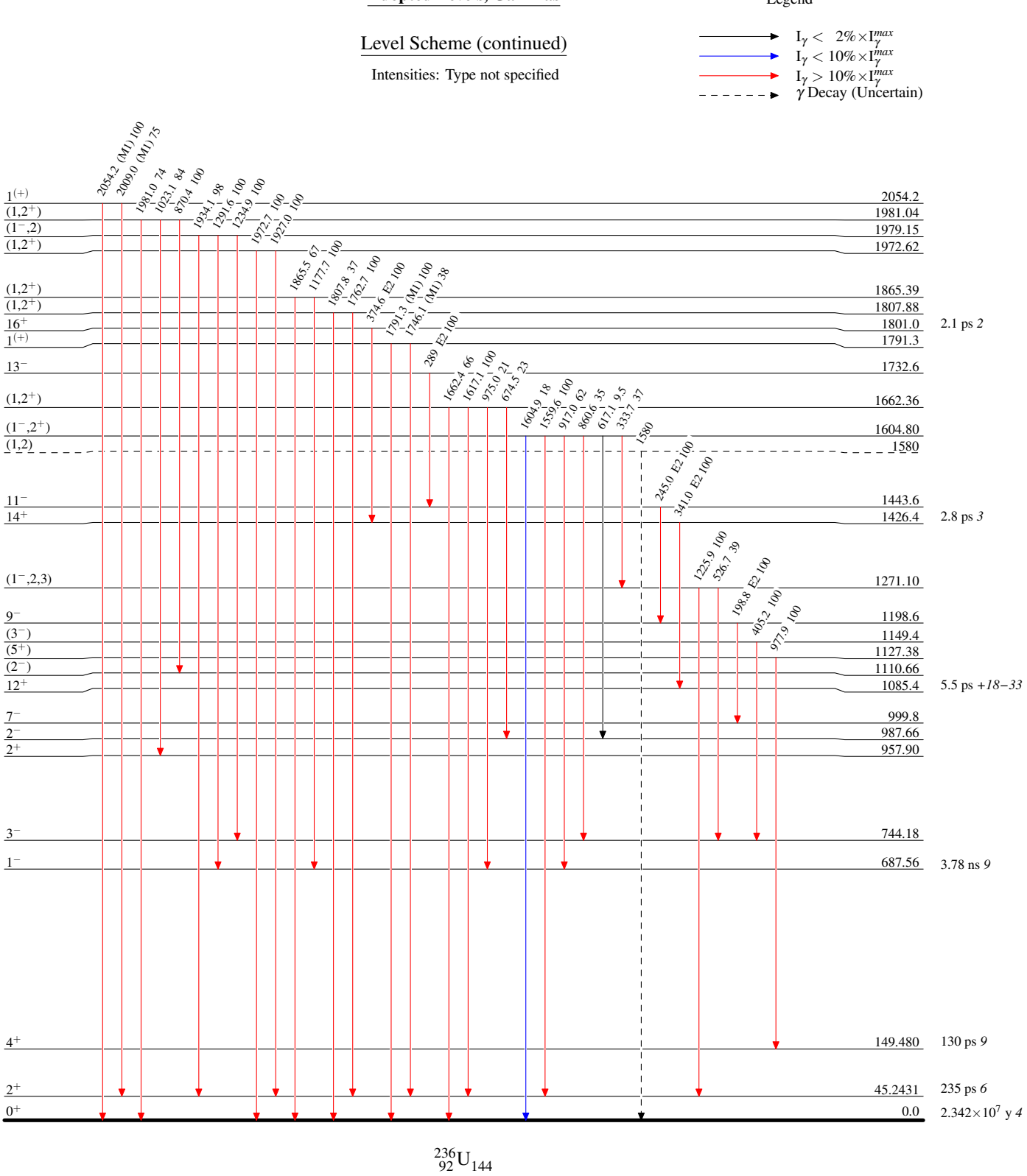


$^{236}_{92}U_{144}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

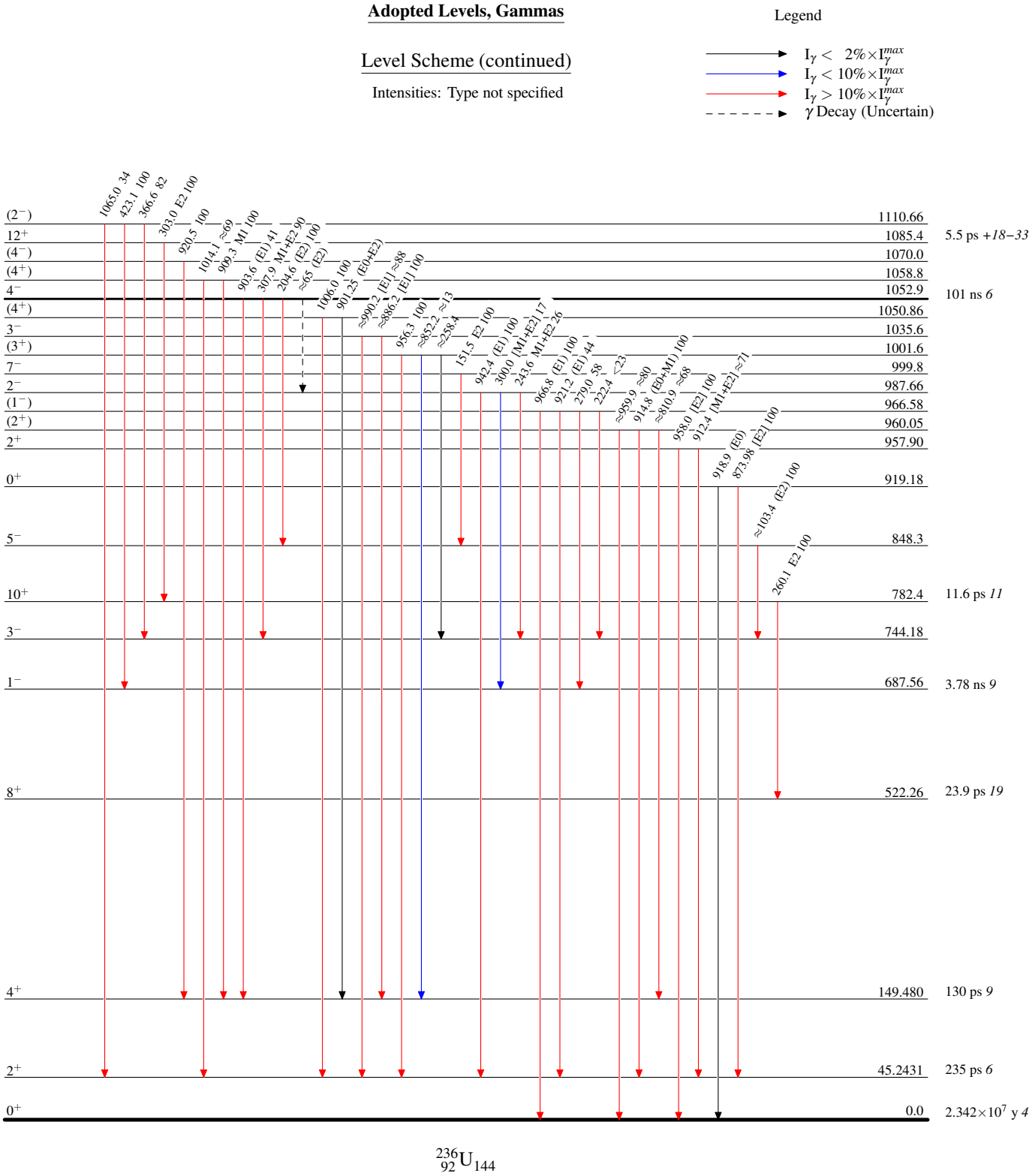


$^{236}_{92}U_{144}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Type not specified

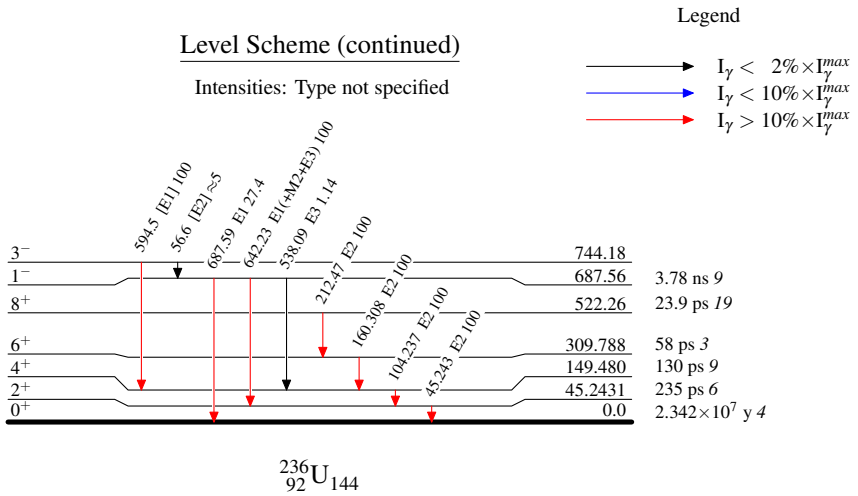


$^{236}_{92}U_{144}$

Adopted Levels, Gammas

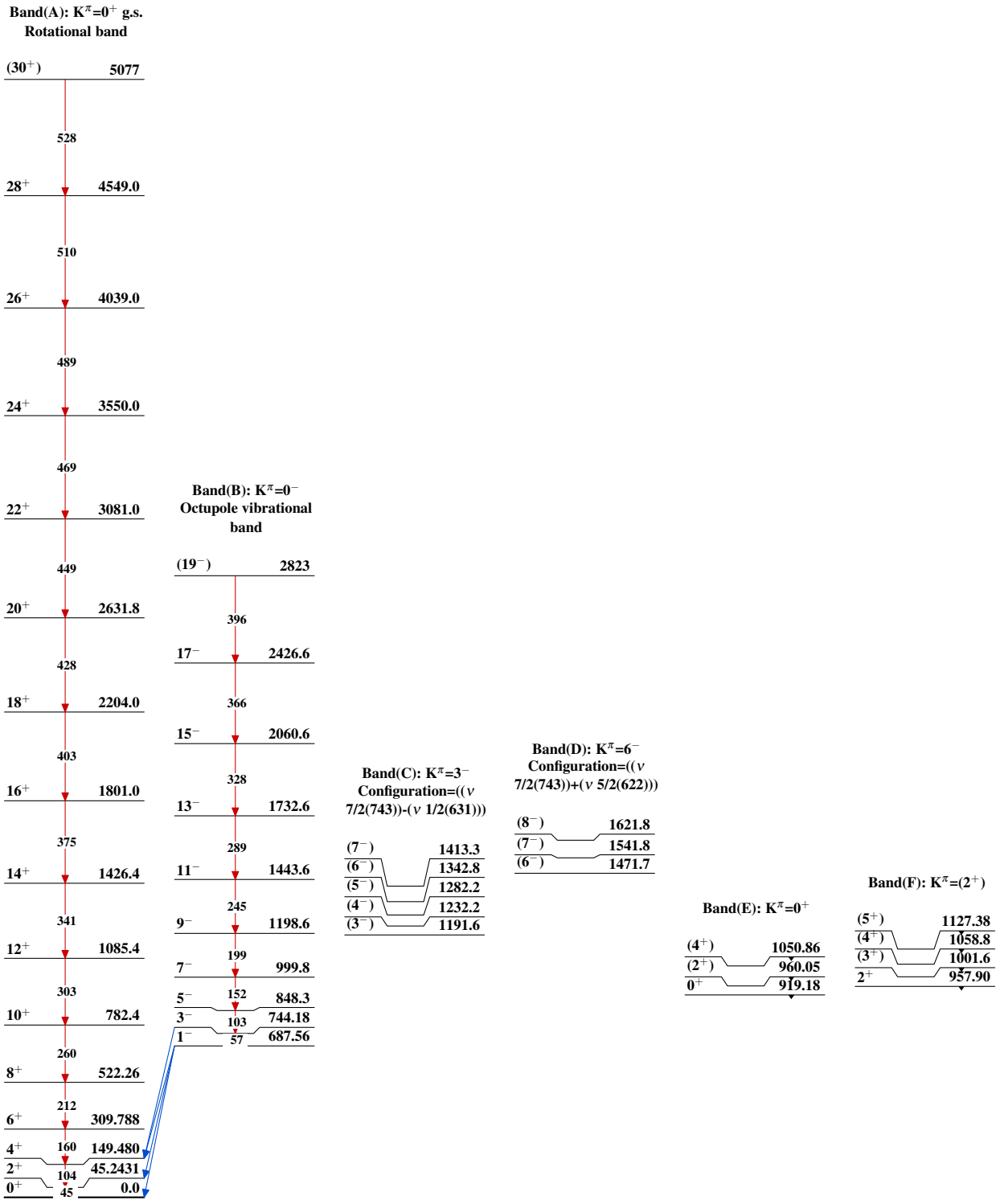
Level Scheme (continued)

Intensities: Type not specified



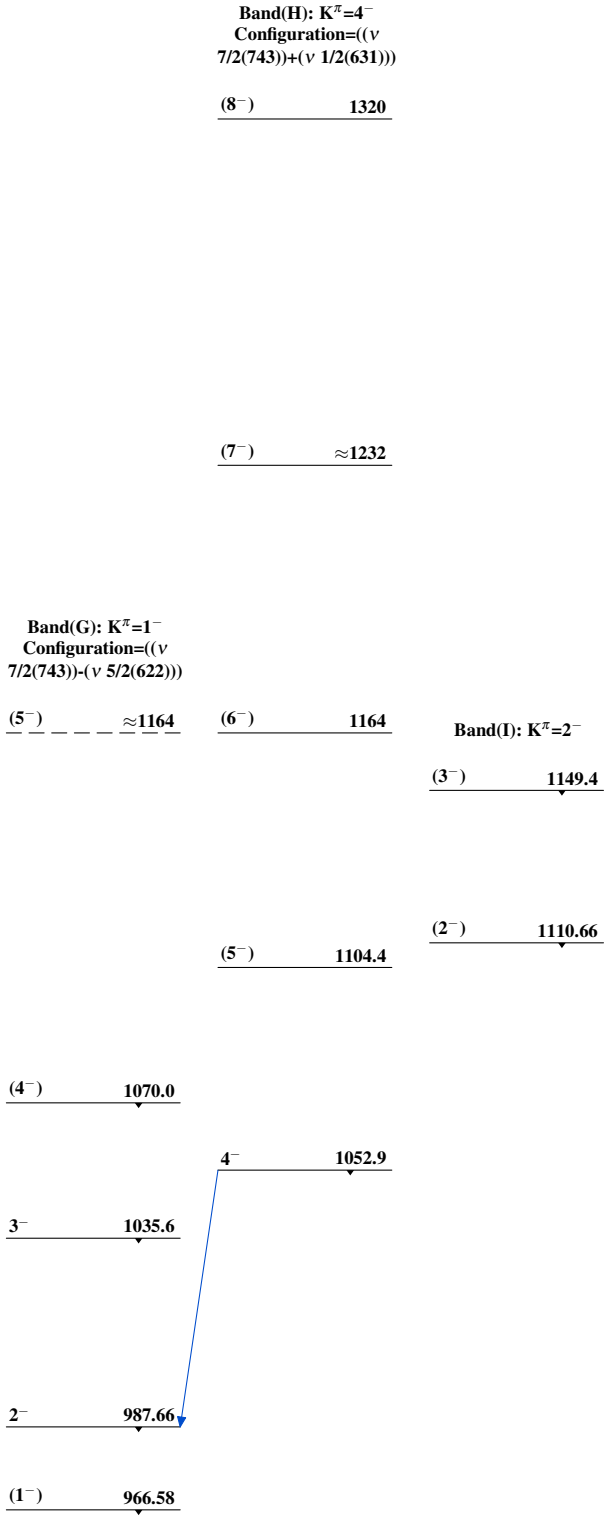
$^{236}_{92}U_{144}$

Adopted Levels, Gammas



$^{236}_{92}U_{144}$

Adopted Levels, Gammas (continued)



$^{236}_{92}U_{144}$