Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113,2391 (2012)	1-Sep-2012

Q(β^-)=−3030 *16*; S(n)=7547.8 *10*; S(p)=8754.4 *9*; Q(α)=−3205.7 *6* 2012Wa38

Note: Current evaluation has used the following Q record −3030 167545.7 *158751.9 15*−3204.0 *17* 2011AuZZ.

For empirical systematics of high-spin states in odd-tin isotopes, see 1978HaZP, 1979Ha12; for low-spin states in odd-tin isotopes, see 1976Ma09.

^{115}Sn Levels

Cross Reference (XREF) Flags

A	Coulomb excitation	G	^{115}Sb ε decay (32.1 min)	M	^{116}Sn(^{3}He,α)
B	^{112}Cd(α,nγ)	H	^{115}Sn IT decay (159 μs)	N	(HI,xnγ)
C	^{114}Sn(d,p)	I	^{116}Cd(α,5nγ)	O	^{114}Sn(n,γ) E=res
D	^{115}In(p,nγ)	J	^{116}Sn(d,t), (pol d,t)	P	^{117}Sn(p,t)
E	^{115}In β^- decay (4.41×10^{14} y)	K	^{116}Sn(p,d)	Q	^{116}Sn(d,t) IAR
F	^{115}In β^- decay (4.486 h)	L	^{113}Cd(α,2nγ)	R	^{116}Sn(p,d) IAR

E(level)†	J$^\pi$‡	$T_{1/2}$	XREF	Comments
0.0	1/2$^+$	stable	ABCDEFGHIJKLMNOP	μ=−0.91883 *7* (1989Ra17) J$^\pi$: L=0 (d,p),(d,t),(p,d),(p,t).
497.334 *22*	3/2$^+$	11 ps *2*	ABCD FGHIJKLMNOP	$T_{1/2}$: if B(E2)=0.0140 *8*, δ(497γ)=+0.21 *2*. J$^\pi$: M1+E2 decay to g.s.
612.81[e] *4*	7/2$^+$	3.26 μs *8*	ABCD GHIJKLMN P	%IT=100 μ=+0.683 *10*; Q=0.26 (1989Ra17,1975Iv02,1976Be59) $T_{1/2}$: from $\gamma\gamma$(t) (1967Iv05). J$^\pi$: E2 decay to 3/2$^+$ state; L=4 (d,p),(d,t),(p,d),(p,t), (^{3}He,α).
713.64[b] *12*	11/2$^-$	159 μs *1*	BCD HIJKLMN P	%IT=100 μ=−1.378 *11*; Q=0.38 *6* (1989Ra17,1975Iv02,1975Ri03) See 1973Ri14 for near-constant μ measurements of 11/2$^-$ isomers in odd-mass tin, cadmium, tellurium isotopes. $T_{1/2}$: from γ(t) pulsed beam (1964Iv01). Others: 165 μs *15* (1958Du80), 155 μs *10* (1964Br27), 166 μs *10* (1966Mc06). J$^\pi$: L=5 (d,p),(d,t),(p,d),(p,t); M2 decay to 7/2$^+$ state.
986.56 *4*	5/2$^+$	1.97 ps *10*	ABCD G JKLMNOP	$T_{1/2}$: from B(E2)=0.0227 *10* and Iγ(986γ)-branching=24.7%; other: 1.25 ps *28* Doppler-broadened 986γ peak. J$^\pi$: L=2 (d,p),(d,t),(p,d),(p,t); J=5/2 from (pol d,t).
1280.28 *5*	3/2$^+$	0.44 ps *9*	ABCD G JKLM OP	$T_{1/2}$: Doppler-broadened 1280γ peak (1977Da12); others: 0.53 ps *5* if B(E2)=0.0444, Iγ(1280γ)-branching=86%, δ(1280γ)=−2.2; 0.6 ps *+4−3* (1999Lo04). J$^\pi$: M1+E2 decay to 1/2$^+$ state.
1416.90 *6*	5/2$^+$	0.35 ps *4*	AB D G JKLM OP	$T_{1/2}$: from B(E2)=0.0607 and Iγ(1417γ)-branching=72%:0.97 ps<(1999Lo04). J$^\pi$: L=2 (d,t),(p,d),(p,t); J=5/2 from (pol d,t);
1633.76 *10*	3/2$^{(+)}$	0.97 ps *+35−14*	BcD G j LM O	J$^\pi$: (M1) decay to 1/2$^+$ state, γ to 7/2$^+$. Doublet L=2 (d,p),(d,t),(p,t). $T_{1/2}$: from 1999Lo04.
1643.52 *23*	(7/2$^-$,9/2$^+$)		BcD jKL P	XREF: j(1639)K(1652).

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Adopted Levels, Gammas (continued)

^{115}Sn Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
				Jπ: L=2 in (d,t). J=3/2 from (pol d,t).
1643.73 *16*	(7/2⁻)		N	
1734.06 *11*	5/2⁺		B D G JKLM O	XREF: K(1753). Jπ: L=2 (d,t),(p,d); J dependence of (p,d) angular distribution.
1785.92 *15*	(9/2 to 13/2)⁻	0.69 ps *+21−14*	B D L N	Jπ: M1+E2 γ to 11/2⁻. $T_{1/2}$: from 1999Lo04.
1805 *10*	(11/2⁺,13/2⁺)		J M	Jπ: L=6 (^{3}He,α).
1824.93 *21*	(3/2⁺,5/2⁺)		B D G L	Jπ: from γ decays to 1/2⁺ and 7/2⁺ states.
1857.40 *10*	7/2⁺	0.35 ps *7*	B D G JKLMN	XREF: K(1840). Jπ: from L=4 (d,t),(p,d) and E2 transition to 3/2⁺ state; J=7/2 from (pol d,t). 1857 γ to 1/2⁺ g.s. in (α,nγ) is not compatible, suggesting γ is misplaced in (α,nγ). $T_{1/2}$: from 1999Lo04.
1945.76 *13*	11/2⁻,13/2⁻	1.3 ps *+4−3*	D J LMN	Jπ: L=5 (d,t),(^{3}He,α). $T_{1/2}$: from 1999Lo04.
1974.0 *5*	1/2⁺		BCD JKL P	XREF: J(1964)K(1980). Jπ: if L=0 (p,d),(p,t) at 1980 keV and L=(0) (d,p) at 1970 keV correspond.
1993.9 *5*	3/2⁺,5/2⁺		J LM	Jπ: L=2 (d,t),(^{3}He,α).
1996.53[e] *17*	(11/2⁺)	1.04 ps *+21−14*	L N	Jπ: E2 γ to 7/2⁺. $T_{1/2}$: from 1999Lo04.
2025.48[b] *13*	(15/2⁻)	1.0 ps *+4−3*	D I L N	Jπ: E2 γ decay to 11/2⁻ state, γ(θ), γ-ray excit. $T_{1/2}$: from 1999Lo04.
2060.15 *21*	5/2⁺		BCD G JKLM	Jπ: L=2 (p,d),(d,t); J=5/2 from (pol d,t).
2076.94 *11*	(1/2⁺)		CD j	XREF: C(2070). Jπ: L=(0) (d,p).
2084.27 *14*	(9/2⁺)	0.90 ps *+28−14*	B D j L N	Jπ: (E2) γ to 5/2⁺ and γ to 7/2⁺. $T_{1/2}$: from 1999Lo04.
2155.77 *13*	(7/2⁺)		B D J LMN	Jπ: L=(4) (d,t); 1658γ decay to 3/2⁺ state.
2164.76 *22*	(3/2⁺,5/2⁺)		BCD L	XREF: C(2170). Jπ: L=(2) (d,p).
2193.16 *20*	(3/2⁺,5/2⁺)		B D G L	Jπ: deexcites to 1/2⁺,7/2⁺ states. Doublet L=2 (d,p),(d,t),(p,d).
2196.6 *4*			D L	
2207.48 *14*	5/2⁺	1.0 ps *4*	B D J LMN	Jπ: L=2 (d,t), M1 γ to 7/2⁺. $T_{1/2}$: from 1999Lo04.
2230.27 *23*	(3/2,5/2⁺)		B D G	Jπ: deexcites to 1/2⁺ and 5/2⁺ states; log *ft*=6.2 via J(initial)=5/2⁺.
2265 *5*	1/2⁻,3/2⁻		JK	Jπ: L=1 (d,t).
2302 *5*	(5/2⁻,7/2⁻)		J M	Jπ: L=(3) (d,t).
2313.82 *19*	3/2⁺,5/2⁺		D J	XREF: J(2322). Jπ: L=2 (d,t).
2347.43[a] *14*	(11/2⁻)		D L N	
2352.16 *18*	(1/2⁺,3/2,5/2⁺)		D jkL	XREF: j(2355). Jπ: L=2 (d,t).
2365.20 *12*	(3/2⁺,5/2⁺)		B D G jkL N	Jπ: L=2 (d,t).
2371 *5*	7/2⁺,9/2⁺		J M	Jπ: L=4 (d,t).
2440.22 *9*	(7/2⁺)		D L N	
2447.7 *3*	(1/2⁻,3/2⁻)		D M	XREF: M(2450). Jπ: L=(1) (^{3}He,α).
2486.7 *9*	7/2⁺,9/2⁺		D M	Jπ: L=4 (^{3}He,α).
2510 *10*	5/2⁺		C JK	Jπ: L=2 (p,d),(d,p),(d,t).

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Adopted Levels, Gammas (continued)

^{115}Sn Levels (continued)

E(level)[†]	J$^{\pi}$[‡]	$T_{1/2}$	XREF	Comments
2553.8 *3*	(3/2$^+$,5/2$^+$)		B D J LM P	XREF: M(2560). J$^{\pi}$: L=(2) (d,t), (pol d,t).
2560	(1/2$^-$,3/2$^-$)		M	J$^{\pi}$: L=(1) (^{3}He,α).
2592.35 *19*	(15/2$^-$)	>2.4 ps	L N	J$^{\pi}$: Δ' J=2 from A_2 and A_4. $T_{1/2}$: from 1999Lo04.
2592.7 *6*	1/2$^-$		JK M	J$^{\pi}$: L=1 (d,t),(p,d). J=1/2 from (pol d,t).
2644.30 *21*	15/2$^-$		N	
2653.65[&] *21*	13/2$^-$		D LMN	
2654.0[#] *1*	(11/2$^+$)	1.2 ps *+14−5*	N	$T_{1/2}$: from 1999Lo04.
2685.51 *14*	(17/2$^-$)	1.2 ps *+5−3*	D L N	$T_{1/2}$: from 1999Lo04.
2745	(11/2$^+$,13/2$^+$)		M	J$^{\pi}$: L=(6) (^{3}He,α).
2759.7 *3*			D L	
2770 *15*	(1/2$^-$,3/2$^-$)		C	J$^{\pi}$: L=(1) (d,p).
2807.37 *25*	5/2$^+$	0.6 ps *+4−3*	D JKL	J$^{\pi}$: L=2(d,t); J=5/2 from (pol d,t). $T_{1/2}$: from 1999Lo04.
2808.28 *23*	(15/2,17/2)		N	
2843.35[a] *13*	15/2$^-$	0.62 ps *+21−14*	D L N	$T_{1/2}$: from 1999Lo04.
2855 *10*	3/2$^+$,5/2$^+$		J M	J$^{\pi}$: L=2 (d,t). E(level): not the same as tentative (2860) with L=(6) seen in (^{3}He,α).
2860	(11/2$^+$,13/2$^+$)		M	J$^{\pi}$: L=(6) in (^{3}He,α).
2890	9/2$^-$,11/2$^-$		M	J$^{\pi}$: L=5 in (^{3}He,α).
2912.85[@] *18*	(13/2$^+$)		N	
2930 *10*	(9/2$^-$,11/2$^-$)		J	J$^{\pi}$: L=(5) (d,t).
2938.24 *17*	(17/2$^-$)	>1.7 ps	L N	$T_{1/2}$: from 1999Lo04.
2950 *5*	5/2$^+$		JK M	J$^{\pi}$: L=2 in (d,t),(^{3}He,α).
2975.4 *6*	3/2$^+$,5/2$^+$		D J	J$^{\pi}$: L=2 (d,t).
3000 *10*	(3/2$^+$,5/2$^+$)		J	J$^{\pi}$: L=(2) (d,t).
3004.09[b] *13*	19/2$^-$	0.62 ps *+35−21*	I L N	J$^{\pi}$: E2 γ decay to 15/2$^-$ state, M1 γ to 17/2$^-$. $T_{1/2}$: from 1999Lo04.
3025 *10*	(3/2$^+$,5/2$^+$)		J	J$^{\pi}$: L=(2) (d,t).
3043.25[e] *17*	(15/2$^+$)		L N	
3060 *20*	7/2$^+$,9/2$^+$		J M	J$^{\pi}$: L=4 in (d,t),(^{3}He,α).
3085 *20*			J	
3130 *20*	3/2$^+$,5/2$^+$		J	J$^{\pi}$: L=2 (d,t).
3190 *20*	3/2$^+$,5/2$^+$		J	J$^{\pi}$: L=2 in (d,t).
3191	9/2$^-$,11/2$^-$		M	J$^{\pi}$: (^{3}He,α) with L=5.
3203.81[&] *12*	17/2$^-$	>1.0 ps	L N	$T_{1/2}$: from 1999Lo04.
3204.86[#] *13*	(15/2$^+$)		N	
3206.0 *4*	(3/2$^+$,5/2$^+$)		D J	XREF: J(3215). J$^{\pi}$: L=(2) (d,t).
3220.17 *15*	17/2$^+$	1.2 ps *+4−3*	L N	$T_{1/2}$: from 1999Lo04.
3258.80 *14*	19/2$^-$		N	
3265 *20*	(3/2$^+$,5/2$^+$)		J	J$^{\pi}$: L=(2) (d,t).
3300 *20*	(5/2$^-$,7/2$^-$)		J M	J$^{\pi}$: L=(3) in (d,t), (^{3}He,α).
3318.66[a] *13*	19/2$^-$	1.3 ps *+5−4*	L N	$T_{1/2}$: from 1999Lo04.
3345 *20*	3/2$^+$,5/2$^+$		J	J$^{\pi}$: L=2 (d,t).
3380 *20*			J	
3385.64 *14*	(19/2$^+$)	0.42 ps *+21−14*	L N	$T_{1/2}$: from 1999Lo04.
3405 *20*	9/2$^-$,11/2$^-$		J M	J$^{\pi}$: L=5 in (^{3}He,α),(d,t).
3420 *20*	3/2$^+$,5/2$^+$		J	J$^{\pi}$: L=2 (d,t).
3470 *20*	3/2$^+$,5/2$^+$		J	J$^{\pi}$: L=2 (d,t).

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Adopted Levels, Gammas (continued)

^{115}Sn Levels (continued)

E(level)[†]	Jπ[‡]	$T_{1/2}$	XREF	Comments
3471.98[f] *14*	19/2⁻		N	
3500 *20*	7/2⁺,9/2⁺		J M	XREF: M(3490). Jπ: L=4 in (d,t),(^{3}He,α).
3509.75[b] *14*	21/2⁺		I L N	Jπ: E1 γ decay to 19/2⁻ E2 γ to 17/2⁺.
3526.25[@] *18*	(17/2⁺)		N	
3533.29[e] *15*	(19/2⁺)		N	
3550 *20*	3/2⁺,5/2⁺		J	Jπ: L=2 (d,t).
3590 *20*			J	
3645 *20*	3/2⁺,5/2⁺		J	Jπ: L=2 (d,t).
3666.5 *2*	9/2⁺		J M	Jπ=9/2⁺ from (pol d,t).
3666.6[b] *2*	23/2⁺		I L N	Jπ: M1 transition to 21/2⁺ state. No γ to Jπ<21/2⁺.
3690 *20*			J	
3710 *20*	(7/2⁺,9/2⁺)		J M	Jπ: L=(4) (d,t)(^{3}He,α).
3745.07 *15*	(21/2⁻)		N	
3839.49[b] *14*	(25/2⁺)		I L N	Jπ: deexcites to 21/2⁺,(23/2⁺) states. No γ to Jπ<23/2⁺.
3842.1 *4*			D	
3859.36[#] *17*	(19/2⁺)		N	
3879.22[&] *13*	21/2⁻	0.8 ps *+4–2*	L N	$T_{1/2}$: from 1999Lo04.
3890.25[e] *20*			N	
3959.95 *15*	(23/2⁺)		L N	
4029.8 *4*			L N	
4047.16[f] *14*	23/2⁻		N	
4060.18[a] *13*	(23/2⁻)	>1.0 ps	L N	$T_{1/2}$: from 1999Lo04.
4132.02 *15*			N	
4163.0 *4*			I	
4242.95[@] *20*	(21/2⁺)		N	
4272.25[b] *16*	(27/2⁺)		I L N	Jπ: M1 transition to (25/2⁺) state. No γ to Jπ<25/2⁺.
4611.26[#] *20*	(23/2⁺)		N	
4635.8 *5*			N	
4687.95[&] *15*	25/2⁻		N	
4865.89[f] *14*	27/2⁻		N	
4889.20[a] *14*	(27/2⁻)		N	
5031.19 *20*			N	
5060.95[@] *23*	(25/2⁺)		N	
5092.90 *25*			N	
5225.61 *25*			N	
5330.86 *16*	29/2⁺		N	
5417.87[#] *22*	(27/2⁺)		N	
5434.48 *17*	29/2⁺		N	
5458.4 *3*	(27/2⁺)		N	
5599.76 *19*	(29/2)		N	
5629.54[&] *16*	29/2⁻		N	
5659.86 *19*			N	
5749.0[b] *2*	(31/2⁺)		N	
5810.19[f] *15*	31/2⁻		N	
5812.83[a] *16*	(31/2⁻)		N	
5911.49 *17*	(31/2⁺)		N	
5966.2[@] *4*	(29/2⁺)		N	
6073.6 *5*			N	
6268.6[#] *3*	(31/2⁺)		N	

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Adopted Levels, Gammas (continued)

^{115}Sn Levels (continued)

E(level)†	Jπ‡	XREF	Comments
6286.64 *18*	(33/2)	N	
6357.25[c] *17*	(31/2−)	N	
6461.3 *3*		N	
6575.65[c] *16*	(33/2−)	N	
6685.2[&] *3*	33/2−	N	
6719.33[f] *17*	35/2−	N	
6830.63[a] *18*	(35/2−)	N	
6949.60[c] *17*	(35/2−)	N	
7157.2[#] *5*	(35/2+)	N	
7248.65[c] *18*	(37/2−)	N	
7683.62[c] *20*	(39/2−)	N	
7826.3[&] *11*	(37/2−)	N	
7922.6[a] *3*	(39/2−)	N	
8163.2[#] *11*	(39/2+)	N	
9069.6[a] *11*	(43/2−)	N	
13250	9/2+	QR	Jπ: IAR, analog of ^{115}In 9/2+, g.s.
13600	1/2−	QR	Jπ: IAR, analog of ^{115}In 1/2−, 336 level.
13850	3/2−	QR	Jπ: IAR, analog of ^{115}In 3/2−, 597 level.
x		N	
5748+x[d]	(33/2)	N	Additional information 1.
6002.0+x[d] *5*	(35/2)	N	
6328.8+x[d] *6*	(37/2)	N	
6711.1+x[d] *6*	(39/2)	N	
7204.2+x[d] *7*	(41/2)	N	
7830.2+x[d] *9*	(43/2)	N	

† From least-squares fit to γ energies.
‡ Without comments are from γ decay patterns and band structure.
# Band(A): band 1 with ΔJ=2.
@ Band(B): band 2 with ΔJ=2.
& Band(C): band 3.
a Band(D): band 4, decoupled rotational band with ΔJ=2.
b Band(E): band 5, yrast band.
c Band(F): band 6.
d Band(G): band 7.
e Band(H): band 8.
f Band(I): band 9, possible rotational character with ΔJ=2.

Adopted Levels, Gammas (continued)

γ(^{115}Sn)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[@]	δ[&]	α[a]	Comments
497.334	3/2$^+$	497.358 *24*	100	0.0	1/2$^+$	M1+E2	+0.21 *2*		B(M1)(W.u.)=0.016 *3*; B(E2)(W.u.)=2.1 *6* δ: Others: +0.20 *4* in (α,2nγ), +0.16 *1* from ε decay. Mult.: from α(K)exp in (α,nγ).
612.81	7/2$^+$	115.46 *4*	100	497.334	3/2$^+$	E2		0.958	α(K)=0.721 *11*; α(L)=0.191 *3*; α(M)=0.0387 *6*; α(N+..)=0.00722 *11* α(N)=0.00689 *10*; α(O)=0.000326 *5* B(E2)(W.u.)=0.130 *4* Mult.: from α(K)exp in (α,nγ).
713.64	11/2$^-$	100.70 *21*	100	612.81	7/2$^+$	M2		5.61 *9*	α(K)=4.55 *8*; α(L)=0.849 *14*; α(M)=0.173 *3*; α(N+..)=0.0348 *6* α(N)=0.0323 *6*; α(O)=0.00249 *4* B(M2)(W.u.)=0.119 *4* Mult.: from α(K)exp in (α,nγ).
986.56	5/2$^+$	373.75 *17*	7.1[#] *10*	612.81	7/2$^+$	M1+E2	−0.27 *6*	0.01640 *24*	α(K)=0.01421 *20*; α(L)=0.00177 *3*; α(M)=0.000346 *6*; α(N+..)=7.08×10^{-5} *11* α(N)=6.51×10^{-5} *11*; α(O)=5.63×10^{-6} *8* B(M1)(W.u.)=0.0100 *16*; B(E2)(W.u.)=4.0 *18* Mult.: from α(K)exp in (α,nγ).
		489.27 *5*	100[#] *6*	497.334	3/2$^+$	M1+E2	+0.040 *23*		B(M1)(W.u.)=0.067 *7*; B(E2)(W.u.)=0.3 *3* Mult.: from α(K)exp in (α,nγ). δ: Others: +0.1 in (α,2nγ).
		986.52 *7*	35[#] *3*	0.0	1/2$^+$	E2			B(E2)(W.u.)=2.3 *3* Mult.: from γ(θ) in (Coul. Ex.).
1280.28	3/2$^+$	293.60 *21*	3.5 *5*	986.56	5/2$^+$	M1+E2	+0.23 *+25−16*	0.0306 *12*	α(K)=0.0265 *9*; α(L)=0.00333 *24*; α(M)=0.00065 *5*; α(N+..)=0.000133 *9* α(N)=0.000123 *9*; α(O)=1.06×10^{-5} *4* B(M1)(W.u.)=0.057 *16*; B(E2)(W.u.)=3.E+1 *+6−3* Mult.: from γ(θ) in (Coul. Ex.).
		668.11 *22*	3.5 *8*	612.81	7/2$^+$				
		782.99 *6*	9.0 *8*	497.334	3/2$^+$	M1+E2	+0.8 *+8−5*		B(M1)(W.u.)=0.005 *4*; B(E2)(W.u.)=4 *+5−4* Mult.: from γ(θ) in (Coul. Ex.).
		1279.99 *12*	100 *2*	0.0	1/2$^+$	M1+E2	−2.2 *2*		B(M1)(W.u.)=0.0035 *9*; B(E2)(W.u.)=8.0 *17* Mult.: from γ(θ) in (Coul. Ex.). δ: others: −2.2 *+5−8* in (α,2nγ).
1416.90	5/2$^+$	136.70 *11*	1.7 *7*	1280.28	3/2$^+$	M1+E2	+0.17 *15*	0.243 *20*	B(E2)(W.u.)=6.7 *7*. From B(E2) and E2(s.p.) estimate. α(K)=0.208 *14*; α(L)=0.028 *5*; α(M)=0.0054 *9*; α(N+..)=0.00110 *17* α(N)=0.00102 *16*; α(O)=8.5×10^{-5} *7* B(M1)(W.u.)=0.30 *13*; B(E2)(W.u.)=4.E+2 *7* Mult.: from γ(θ) in (Coul. Ex.).
		430.28 *21*	0.8 *6*	986.56	5/2$^+$	M1+E2		0.01146 *17*	α(K)=0.00986 *18*; α(L)=0.00129 *8*; α(M)=0.000254 *16*;

$^{115}_{50}Sn_{65}$-6

Adopted Levels, Gammas (continued)

γ(^{115}Sn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[@]	δ[&]	Comments
								α(N+..)=5.12×10^{-5} *25* α(N)=4.7×10^{-5} *3*; α(O)=3.88×10^{-6} *8* B(M1)(W.u.)≈0.003574; B(E2)(W.u.)≈4.518 Mult.: from $\gamma(\theta)$ in (Coul. Ex.). δ: 0<δ<+2.2 from A_2=0.40 *23*.
1416.90	5/2$^+$	804.04 *18*	7.1 *10*	612.81	7/2$^+$			
		919.71 *10*	25.8 *10*	497.334	3/2$^+$	M1+E2	+0.17 *3*	B(M1)(W.u.)=0.0149 *19*; B(E2)(W.u.)=0.39 *15* Mult.: from α(K)exp in (α,nγ).
		1416.78 *9*	100 *3*	0.0	1/2$^+$	E2		B(E2)(W.u.)=6.3 *8* Mult.: from α(K)exp in (α,nγ).
1633.76	3/2$^{(+)}$	353.2 *6*	3.0[#] *19*	1280.28	3/2$^+$			
		1021.08 *20*	8.5[#] *15*	612.81	7/2$^+$			
		1136.45 *15*	8.5[#] *15*	497.334	3/2$^+$			
		1633.72 *18*	100[#] *7*	0.0	1/2$^+$	M1+E2	−0.75	B(M1)(W.u.)=0.0028 *11*; B(E2)(W.u.)=0.45 *17* δ,Mult.: from (α,2nγ).
1643.52	(7/2$^-$,9/2$^+$)	657.10 *30*	100	986.56	5/2$^+$			
1643.73	(7/2$^-$)	930.1 *2*	100	713.64	11/2$^-$			
1734.06	5/2$^+$	453.9 *4*	20[#] *8*	1280.28	3/2$^+$			
		747.66 *18*	25[#] *10*	986.56	5/2$^+$	E2,M1		Mult.: from α(K)exp in (α,nγ).
		1121.29 *19*	100[#] *17*	612.81	7/2$^+$			
		1236.52 *18*	100[#] *33*	497.334	3/2$^+$			
		1734.0 *7*	10[#] *5*	0.0	1/2$^+$	(E2)		
1785.92	(9/2 to 13/2)$^-$	369.5 *7*	2.2 *6*	1416.90	5/2$^+$			
		1072.20 *20*	100	713.64	11/2$^-$	M1+E2	−1.6 *2*	B(M1)(W.u.)=0.007 *3*; B(E2)(W.u.)=12 *4* δ,Mult.: from (α,2nγ).
1824.93	(3/2$^+$,5/2$^+$)	1211.6 *7*	17 *5*	612.81	7/2$^+$			
		1327.5 *3*	49 *4*	497.334	3/2$^+$			
		1825.1 *3*	100 *7*	0.0	1/2$^+$			
1857.40	7/2$^+$	1244.5 *1*	21.4 *21*	612.81	7/2$^+$			
		1360.31 *17*	100 *4*	497.334	3/2$^+$	E2		B(E2)(W.u.)=7.7 *16* Mult.: from $\gamma(\theta)$ in (α,2nγ).
		1857.0 *7*	15 *3*	0.0	1/2$^+$			
1945.76	11/2$^-$,13/2$^-$	1231.9 *1*	100	713.64	11/2$^-$	M1		B(M1)(W.u.)=0.009 *3* Mult.: from $\gamma(\theta)$ in (α,2nγ).
1974.0	1/2$^+$	1476.7 *5*	100[#] *10*	497.334	3/2$^+$			
		1973.8 *10*	21[#] *8*	0.0	1/2$^+$			
1993.9	3/2$^+$,5/2$^+$	360.1 *5*	100	1633.76	3/2$^{(+)}$			
1996.53	(11/2$^+$)	1383.6 *2*	100	612.81	7/2$^+$	E2		B(E2)(W.u.)=3.2 *7* Mult.: from $\gamma(\theta)$ in (α,2nγ).

Adopted Levels, Gammas (continued)

γ(^{115}Sn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[@]	Comments
2025.48	(15/2$^-$)	1311.5 *1*	100	713.64	11/2$^-$	E2	B(E2)(W.u.)=4.4 *18* Mult.: from γ(θ) in (α,2nγ).
2060.15	5/2$^+$	1562.64 *24*	100 *7*	497.334	3/2$^+$	(E2)	
		2060.6 *4*	32 *11*	0.0	1/2$^+$		
2076.94	(1/2$^+$)	1579.6 *1*	100	497.334	3/2$^+$		
2084.27	(9/2$^+$)	803.7 *5*	11[#] *3*	1280.28	3/2$^+$		
		1097.70 *20*	100[#] *9*	986.56	5/2$^+$	(E2)	B(E2)(W.u.)=5.3 *18* Mult.: from γ(θ) in (α,2nγ).
		1471.7 *6*	65[#] *6*	612.81	7/2$^+$		
		1587.3 *3*	50[#] *4*	497.334	3/2$^+$		
2155.77	(7/2$^+$)	1169.2 *2*	55 *6*	986.56	5/2$^+$		
		1543.00 *20*	85 *9*	612.81	7/2$^+$		
		1658.5 *4*	100 *10*	497.334	3/2$^+$		
2164.76	(3/2$^+$,5/2$^+$)	306.6 *9*	15 *4*	1857.40	7/2$^+$		
		521.3 *2*	30 *4*	1643.52	(7/2$^-$,9/2$^+$)		
		1178.4 *4*	22 *7*	986.56	5/2$^+$		
		1667.1 *4*	100 *7*	497.334	3/2$^+$		
2193.16	(3/2$^+$,5/2$^+$)	1206.8 *7*	43 *13*	986.56	5/2$^+$		
		1579.8 *3*	10 *3*	612.81	7/2$^+$		
		1696.1 *3*	100 *13*	497.334	3/2$^+$		
		2194.0 *6*	21 *3*	0.0	1/2$^+$		
2196.6		780.0 *4*	67 *11*	1416.90	5/2$^+$		
		1209.5 *6*	100 *17*	986.56	5/2$^+$		
2207.48	5/2$^+$	574.5 *7*	13[#] *3*	1633.76	3/2$^{(+)}$		
		790.9 *4*	12[#] *4*	1416.90	5/2$^+$		
		1221.10 *20*	84[#] *8*	986.56	5/2$^+$		
		1594.5 *5*	100[#] *9*	612.81	7/2$^+$	M1	B(M1)(W.u.)=0.0026 *11* Mult.: from α(K)exp in (α,nγ).
2230.27	(3/2,5/2$^+$)	1244.0 *3*	38 *9*	986.56	5/2$^+$		
		1732.6 *4*	38 *12*	497.334	3/2$^+$		
		2229.8 *6*	100 *8*	0.0	1/2$^+$		
2313.82	3/2$^+$,5/2$^+$	896.7 *6*	17 *7*	1416.90	5/2$^+$		
		1816.5 *2*	100 *17*	497.334	3/2$^+$		
2347.43	(11/2$^-$)	401.5 *3*	12 *2*	1945.76	11/2$^-$,13/2$^-$		
		561.5 *1*	44 *11*	1785.92	(9/2 to 13/2)$^-$		
		703.7 *1*	36 *8*	1643.73	(7/2$^-$)		E_γ: Not seen in (α,2nγ).
		1634.0 *2*	100 *11*	713.64	11/2$^-$		
2352.16	(1/2$^+$,3/2,5/2$^+$)	618.4 *5*	49 *9*	1734.06	5/2$^+$		
		1854.8 *2*	100 *18*	497.334	3/2$^+$		
		2352.0 *6*	13 *9*	0.0	1/2$^+$		

Adopted Levels, Gammas (continued)

γ(^{115}Sn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[@]	Comments
2365.20	(3/2$^+$,5/2$^+$)	948.6 *4*	38[#] *5*	1416.90	5/2$^+$		
		1378.2 *5*	100[#] *8*	986.56	5/2$^+$		
		1752.1 *11*	57[#] *7*	612.81	7/2$^+$		
		1867.8 *3*		497.334	3/2$^+$		E_γ: seen only in ε decay and (α,nγ).
		2364.8 *5*		0.0	1/2$^+$		E_γ: seen only in ε decay.
2440.22	(7/2$^+$)	232.5 *7*	14 *7*	2207.48	5/2$^+$		
		1453.7 *1*	100 *10*	986.56	5/2$^+$		
		2439.2 *4*	14 *4*	0.0	1/2$^+$		
2447.7	(1/2$^-$,3/2$^-$)	814.1 *4*	100 *17*	1633.76	3/2$^{(+)}$		
		1030.7 *4*	100 *6*	1416.90	5/2$^+$		
2486.7	7/2$^+$,9/2$^+$	1989.3 *2*	100	497.334	3/2$^+$		
2553.8	(3/2$^+$,5/2$^+$)	189.1 *4*	24 *6*	2365.20	(3/2$^+$,5/2$^+$)		
		1940.5 *4*	100 *12*	612.81	7/2$^+$		
2592.35	(15/2$^-$)	1878.9 *2*	100	713.64	11/2$^-$		
2653.65	13/2$^-$	306.0 *6*	7.4 *18*	2347.43	(11/2$^-$)		
		628.2 *2*	54 *5*	2025.48	(15/2$^-$)		
		867.7 *6*	100 *10*	1785.92	(9/2 to 13/2)$^-$		
		1940.0 *6*	47.2 *18*	713.64	11/2$^-$		
2654.0	(11/2$^+$)	213.7 *1*	11 *3*	2440.22	(7/2$^+$)		
		288.7 *1*	13 *3*	2365.20	(3/2$^+$,5/2$^+$)		
		306.5 *2*	26 *3*	2347.43	(11/2$^-$)		
		446.8 *2*	30 *3*	2207.48	5/2$^+$		
		498.3 *3*	33 *3*	2155.77	(7/2$^+$)		
		570.0 *3*	21 *3*	2084.27	(9/2$^+$)		
		1940.9 *2*	100 *14*	713.64	11/2$^-$		
2685.51	(17/2$^-$)	660.3 *5*	62 *3*	2025.48	(15/2$^-$)		
		739.5 *2*	100 *4*	1945.76	11/2$^-$,13/2$^-$		
2759.7		734.6 *5*	44 *8*	2025.48	(15/2$^-$)		
		2045.9 *3*	100 *24*	713.64	11/2$^-$		
2807.37	5/2$^+$	861.8 *3*	100	1945.76	11/2$^-$,13/2$^-$		
2808.28	(15/2,17/2)	862.4 *2*	100	1945.76	11/2$^-$,13/2$^-$		
2843.35	15/2$^-$	189.3 *2*	24 *7*	2653.65	13/2$^-$		
		496.1 *2*	100 *11*	2347.43	(11/2$^-$)		
		817.8 *1*	33 *7*	2025.48	(15/2$^-$)	M1	B(M1)(W.u.)=0.010 *4*
		897.7 *3*	67 *11*	1945.76	11/2$^-$,13/2$^-$		
2912.85	(13/2$^+$)	2200 *1*	100	713.64	11/2$^-$		
2938.24	(17/2$^-$)	253.1 *3*	43 *12*	2685.51	(17/2$^-$)		
		346.1 *2*	20 *10*	2592.35	(15/2$^-$)		
		912.8 *5*	65 *22*	2025.48	(15/2$^-$)		
		992.2 *2*	100 *18*	1945.76	11/2$^-$,13/2$^-$		
2975.4	3/2$^+$,5/2$^+$	810.6 *5*	100	2164.76	(3/2$^+$,5/2$^+$)		

$^{115}_{50}Sn_{65}$-9

Adopted Levels, Gammas (continued)

γ(^{115}Sn) (continued)

E_i(level)	J_i^π	E_γ †	I_γ ‡	E_f	J_f^π	Mult. @	Comments
3004.09	19/2$^-$	318.5 *1*	4.7 *1*	2685.51	(17/2$^-$)	M1	B(M1)(W.u.)=0.05 *3*
		978.5 *1*	100 *1*	2025.48	(15/2$^-$)	E2	B(E2)(W.u.)=29 *17*
3043.25	(15/2$^+$)	1046.6 *2*	100	1996.53	(11/2$^+$)		
3203.81	17/2$^-$	360.1 *5*	39 *3*	2843.35	15/2$^-$		
		550.1 *1*	100 *3*	2653.65	13/2$^-$		
		559.4 *3*	11.2 *19*	2644.30	15/2$^-$		
		1178.4 *3*	55 *6*	2025.48	(15/2$^-$)		
		1257.8 *2*	21 *3*	1945.76	11/2$^-$,13/2$^-$		
3204.86	(15/2$^+$)	292.0 *2*	2.7 *11*	2912.85	(13/2$^+$)		
		550.9 *1*	100 *2*	2654.0	(11/2$^+$)		
3206.0	(3/2$^+$,5/2$^+$)	2219.5 *5*	100 *60*	986.56	5/2$^+$		
		2593.1 *6*	100 *60*	612.81	7/2$^+$		
3220.17	17/2$^+$	1194.9 *2*	100	2025.48	(15/2$^-$)	E1	B(E1)(W.u.)=0.00014 *5*
3258.80	19/2$^-$	254.5 *5*	9.5 *15*	3004.09	19/2$^-$	M1	
		573.3 *1*	68 *5*	2685.51	(17/2$^-$)	M1	
		1233.2 *1*	100.0 *10*	2025.48	(15/2$^-$)	E2	
3318.66	19/2$^-$	115.5 *2*	<0.2	3203.81	17/2$^-$		
		475.4 *1*	5.0 *3*	2843.35	15/2$^-$	(E2)	B(E2)(W.u.)=25 *10*
		674.4 *2*	3.0 *5*	2644.30	15/2$^-$		
		726.0 *5*	2.0 *5*	2592.35	(15/2$^-$)		
		1293.2 *1*	100 *5*	2025.48	(15/2$^-$)	E2	B(E2)(W.u.)=3.3 *13*
3385.64	(19/2$^+$)	165.4 *1*	20.3 *8*	3220.17	17/2$^+$	M1	B(M1)(W.u.)=1.8 *10*
		576.6 *5*	7.3 *20*	2808.28	(15/2,17/2)		
		700.1 *1*	100 *5*	2685.51	(17/2$^-$)		
3471.98	19/2$^-$	628.5 *1*	47 *5*	2843.35	15/2$^-$	(E2)	
		1446.8 *2*	100 *3*	2025.48	(15/2$^-$)	E2	
3509.75	21/2$^+$	124.1 *1*	0.7 *1*	3385.64	(19/2$^+$)	M1	
		251.4 *3*	0.4 *1*	3258.80	19/2$^-$		
		289.7 *1*	2.5 *1*	3220.17	17/2$^+$	E2	
		505.6 *1*	100	3004.09	19/2$^-$	E1	
3526.25	(17/2$^+$)	321.3 *3*	6 *3*	3204.86	(15/2$^+$)		
		613.4 *1*	100 *14*	2912.85	(13/2$^+$)		
		682.9 *2*	20 *5*	2843.35	15/2$^-$		
3533.29	(19/2$^+$)	490.0 *1*	100 *10*	3043.25	(15/2$^+$)		
		529.1 *2*	43 *6*	3004.09	19/2$^-$		
		595.5 *3*	28 *5*	2938.24	(17/2$^-$)		
		726.1 *3*	35 *4*	2808.28	(15/2,17/2)		
3666.6	23/2$^+$	156.8 *1*	100	3509.75	21/2$^+$	M1	
3745.07	(21/2$^-$)	486.1 *1*	100 *6*	3258.80	19/2$^-$	M1	
		806.4 *4*	14 *3*	2938.24	(17/2$^-$)		
3839.49	(25/2$^+$)	173.0 *1*	100 *3*	3666.6	23/2$^+$	M1	
		329.7 *1*	2.3 *2*	3509.75	21/2$^+$	E2	

$^{115}_{50}Sn_{65}$-10

Adopted Levels, Gammas (continued)

γ(^{115}Sn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[@]	Comments
3842.1		2425.2 *4*	100	1416.90	5/2$^+$		
3859.36	(19/2$^+$)	654.5 *1*	100	3204.86	(15/2$^+$)		
3879.22	21/2$^-$	407.3 *5*	4.0 *12*	3471.98	19/2$^-$		
		560.6 *1*	32 *3*	3318.66	19/2$^-$	M1	B(M1)(W.u.)=0.037 *19*
		675.4 *1*	100 *4*	3203.81	17/2$^-$	E2	B(E2)(W.u.)=1.1×10^2 *6*
3890.25		357.2 *2*	100	3533.29	(19/2$^+$)		
3959.95	(23/2$^+$)	426.5 *2*	28.7 *18*	3533.29	(19/2$^+$)		
		450.3 *1*	45 *4*	3509.75	21/2$^+$	M1	
		574.3 *1*	100 *6*	3385.64	(19/2$^+$)	E2	
4029.8		644.2 *3*	100	3385.64	(19/2$^+$)		
4047.16	23/2$^-$	167.9 *4*	3.6 *12*	3879.22	21/2$^-$		
		301.9 *1*	46 *3*	3745.07	(21/2$^-$)		
		574.4 *4*	14 *4*	3471.98	19/2$^-$	(E2)	
		728.7 *1*	100 *8*	3318.66	19/2$^-$	E2	
		1043.4 *2*	84 *9*	3004.09	19/2$^-$	E2	
4060.18	(23/2$^-$)	181.0 *1*	3.4 *3*	3879.22	21/2$^-$		
		588.2 *1*	6.5 *5*	3471.98	19/2$^-$	(E2)	B(E2)(W.u.)<12
		741.6 *1*	100 *4*	3318.66	19/2$^-$	E2	B(E2)(W.u.)<56
		801.4 *2*	4.6 *5*	3258.80	19/2$^-$		
		1055.9 *1*	21.8 *11*	3004.09	19/2$^-$	E2	B(E2)(W.u.)<2.1
4132.02		242.0 *2*	18 *5*	3890.25			
		292.5 *1*	39 *5*	3839.49	(25/2$^+$)		
		465.8 *3*	26 *5*	3666.6	23/2$^+$		
		622.2 *3*	89 *11*	3509.75	21/2$^+$		
		746.0 *2*	100 *11*	3385.64	(19/2$^+$)		
4163.0		323.5 *3*	100	3839.49	(25/2$^+$)		
4242.95	(21/2$^+$)	716.7 *1*	100	3526.25	(17/2$^+$)		
4272.25	(27/2$^+$)	432.6 *1*	100	3839.49	(25/2$^+$)	M1	
4611.26	(23/2$^+$)	751.9 *1*	100	3859.36	(19/2$^+$)		
4635.8		969.3 *4*	100	3666.6	23/2$^+$		
4687.95	25/2$^-$	627.7 *2*	21.4 *19*	4060.18	(23/2$^-$)		
		808.7 *4*	100 *5*	3879.22	21/2$^-$	E2	
4865.89	27/2$^-$	177.6 *2*	1.8 *2*	4687.95	25/2$^-$		
		805.8 *1*	100 *5*	4060.18	(23/2$^-$)	E2	
		818.6 *3*	5.5 *12*	4047.16	23/2$^-$	(E2)	
		1026.4 *1*	15.7 *12*	3839.49	(25/2$^+$)	(E1)	
4889.20	(27/2$^-$)	201.3 *1*	3.8 *4*	4687.95	25/2$^-$		
		828.9 *1*	100 *5*	4060.18	(23/2$^-$)	E2	
		842.2 *2*	10.4 *11*	4047.16	23/2$^-$	(E2)	
5031.19		899.0 *2*	64 *11*	4132.02			
		1071.4 *2*	100 *11*	3959.95	(23/2$^+$)		
5060.95	(25/2$^+$)	818.0 *1*	100	4242.95	(21/2$^+$)		

$^{115}_{50}Sn_{65}$-11

Adopted Levels, Gammas (continued)

γ(^{115}Sn) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[‡]	E_f	J_f^π	Mult.[@]
5092.90		1253.4 *2*	100	3839.49	(25/2$^+$)	
5225.61		1559.1 *2*	100	3666.6	23/2$^+$	E2
5330.86	29/2$^+$	1058.3 *1*	44 *3*	4272.25	(27/2$^+$)	M1
		1491.5 *1*	100 *5*	3839.49	(25/2$^+$)	E2
5417.87	(27/2$^+$)	806.6 *1*	100	4611.26	(23/2$^+$)	
5434.48	29/2$^+$	1161.8 *3*	11.2 *18*	4272.25	(27/2$^+$)	(M1)
		1595.0 *1*	100 *5*	3839.49	(25/2$^+$)	E2
5458.4	(27/2$^+$)	847.1 *2*	100	4611.26	(23/2$^+$)	
5599.76	(29/2)	1327.5 *1*	100	4272.25	(27/2$^+$)	M1
5629.54	29/2$^-$	941.6 *1*	100	4687.95	25/2$^-$	
5659.86		1387.6 *1*	100	4272.25	(27/2$^+$)	M1
5749.0	(31/2$^+$)	417.4 *4*	5.2 *17*	5330.86	29/2$^+$	
		1476.7 *1*	100 *4*	4272.25	(27/2$^+$)	E2
5810.19	31/2$^-$	180.7 *3*	1.0 *3*	5629.54	29/2$^-$	
		921.0 *1*	51 *3*	4889.20	(27/2$^-$)	E2
		944.3 *1*	100 *4*	4865.89	27/2$^-$	E2
5812.83	(31/2$^-$)	183.3 *1*	1.5 *3*	5629.54	29/2$^-$	
		923.6 *1*	100 *5*	4889.20	(27/2$^-$)	E2
		946.9 *4*	1.9 *5*	4865.89	27/2$^-$	
5911.49	(31/2$^+$)	476.9 *2*	78 *7*	5434.48	29/2$^+$	
		580.1 *2*	81 *19*	5330.86	29/2$^+$	
		1639.4 *1*	100 *7*	4272.25	(27/2$^+$)	E2
5966.2	(29/2$^+$)	905.2 *3*	100	5060.95	(25/2$^+$)	
6073.6		1801.3 *4*	100	4272.25	(27/2$^+$)	
6268.6	(31/2$^+$)	850.7 *2*	100	5417.87	(27/2$^+$)	
6286.64	(33/2)	375.2 *2*	33 *5*	5911.49	(31/2$^+$)	
		537.7 *1*	76 *24*	5749.0	(31/2$^+$)	
		852.2 *2*	100 *14*	5434.48	29/2$^+$	
6357.25	(31/2$^-$)	1026.4 *1*	100	5330.86	29/2$^+$	(E1)
6461.3		549.8 *2*	100	5911.49	(31/2$^+$)	
6575.65	(33/2$^-$)	218.4 *1*	50 *3*	6357.25	(31/2$^-$)	M1
		762.8 *3*	18 *5*	5812.83	(31/2$^-$)	
		765.5 *1*	100 *8*	5810.19	31/2$^-$	
6685.2	33/2$^-$	1055.7 *2*	100	5629.54	29/2$^-$	
6719.33	35/2$^-$	906.4 *2*	17.0 *22*	5812.83	(31/2$^-$)	(E2)
		909.1 *1*	100 *5*	5810.19	31/2$^-$	E2
6830.63	(35/2$^-$)	1017.8 *1*	100 *8*	5812.83	(31/2$^-$)	E2
		1020.3 *4*	21 *8*	5810.19	31/2$^-$	
6949.60	(35/2$^-$)	374.0 *1*	100 *6*	6575.65	(33/2$^-$)	M1
		1136.5 *6*	14.8 *4*	5812.83	(31/2$^-$)	(E2)
		1140 *1*	4 *4*	5810.19	31/2$^-$	(E2)
7157.2	(35/2$^+$)	888.6 *3*	100	6268.6	(31/2$^+$)	
7248.65	(37/2$^-$)	299.1 *1*	44 *3*	6949.60	(35/2$^-$)	M1
		529.3 *1*	100 *6*	6719.33	35/2$^-$	
7683.62	(39/2$^-$)	435.0 *1*	100 *11*	7248.65	(37/2$^-$)	M1
		963.9 *4*	67 *17*	6719.33	35/2$^-$	(E2)
7826.3	(37/2$^-$)	1141 *1*	100 *2*	6685.2	33/2$^-$	
7922.6	(39/2$^-$)	1092.0 *2*	100	6830.63	(35/2$^-$)	E2
8163.2	(39/2$^+$)	1006 *1*	100	7157.2	(35/2$^+$)	
9069.6	(43/2$^-$)	1147 *1*	100	7922.6	(39/2$^-$)	(E2)
6002.0+x	(35/2)	254.0 *5*	100	5748+x	(33/2)	
6328.8+x	(37/2)	326.8 *2*	100	6002.0+x	(35/2)	
6711.1+x	(39/2)	382.3 *2*	100	6328.8+x	(37/2)	
7204.2+x	(41/2)	493.1 *3*	100	6711.1+x	(39/2)	
7830.2+x	(43/2)	626.0 *5*	100	7204.2+x	(41/2)	

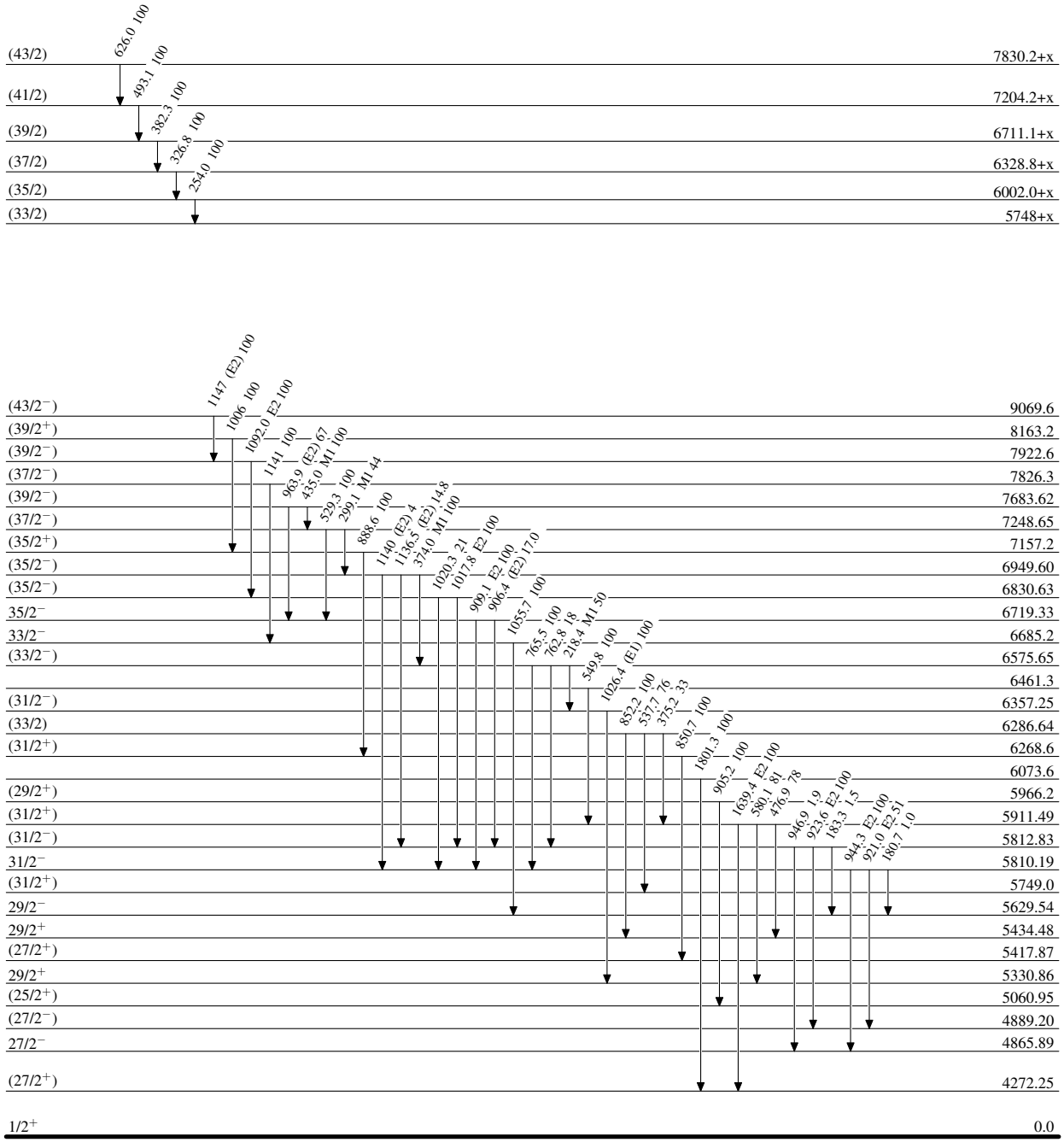
[†] Average from all decay, (α,nγ), (p,nγ).
[‡] Average from all decay, (α,nγ), (p,nγ), but when the data include large inconsistencies, evaluator has taken data from (p,nγ) (Most recent).
[#] From (p,nγ).
[@] From DCO ratios in (HI,xnγ), otherwise noted.
[&] From $\gamma(\theta)$ in Coul. ex., except as noted.
[a] 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.

$^{115}_{50}Sn_{65}$-12

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

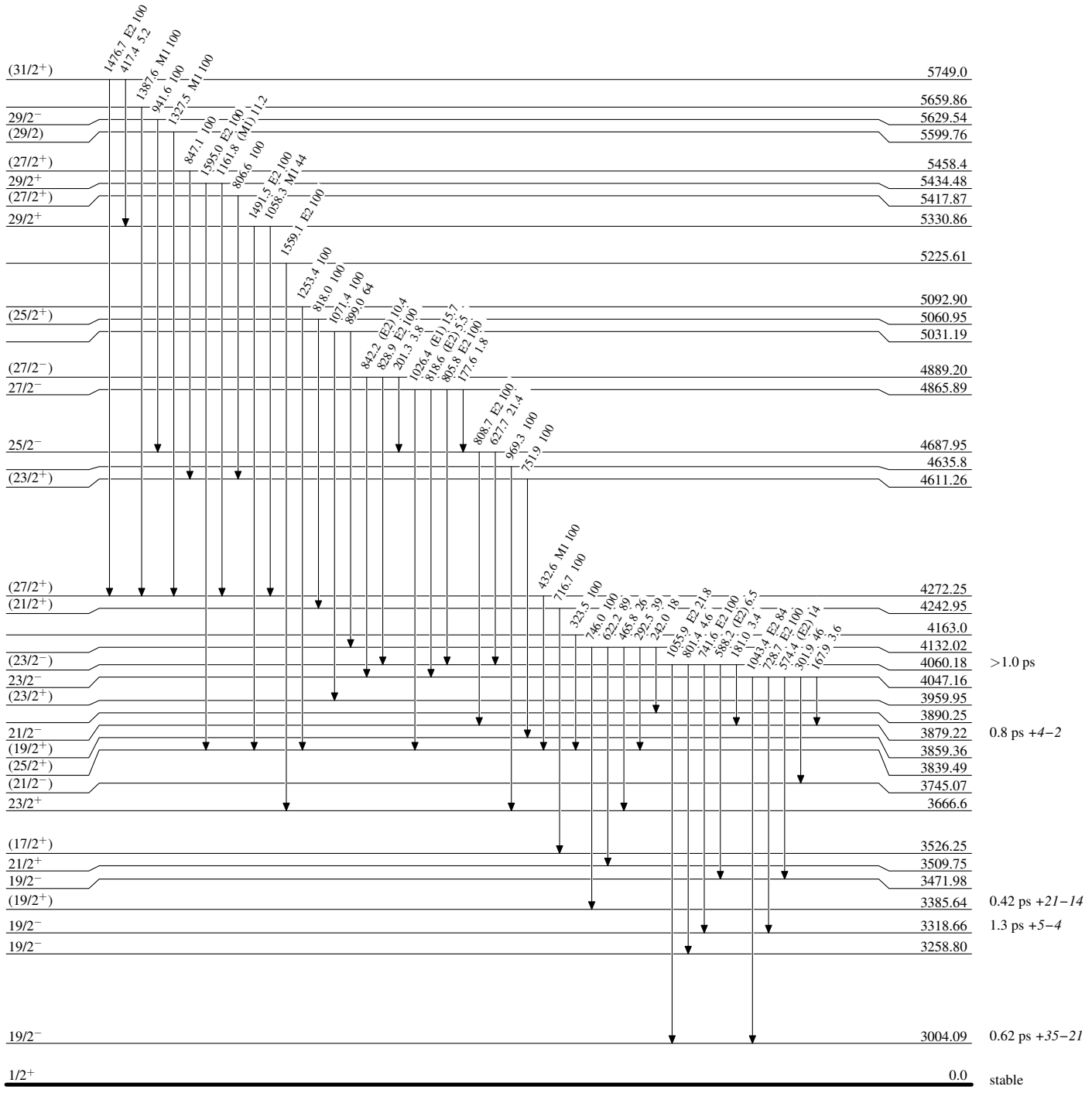


$^{115}_{50}Sn_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

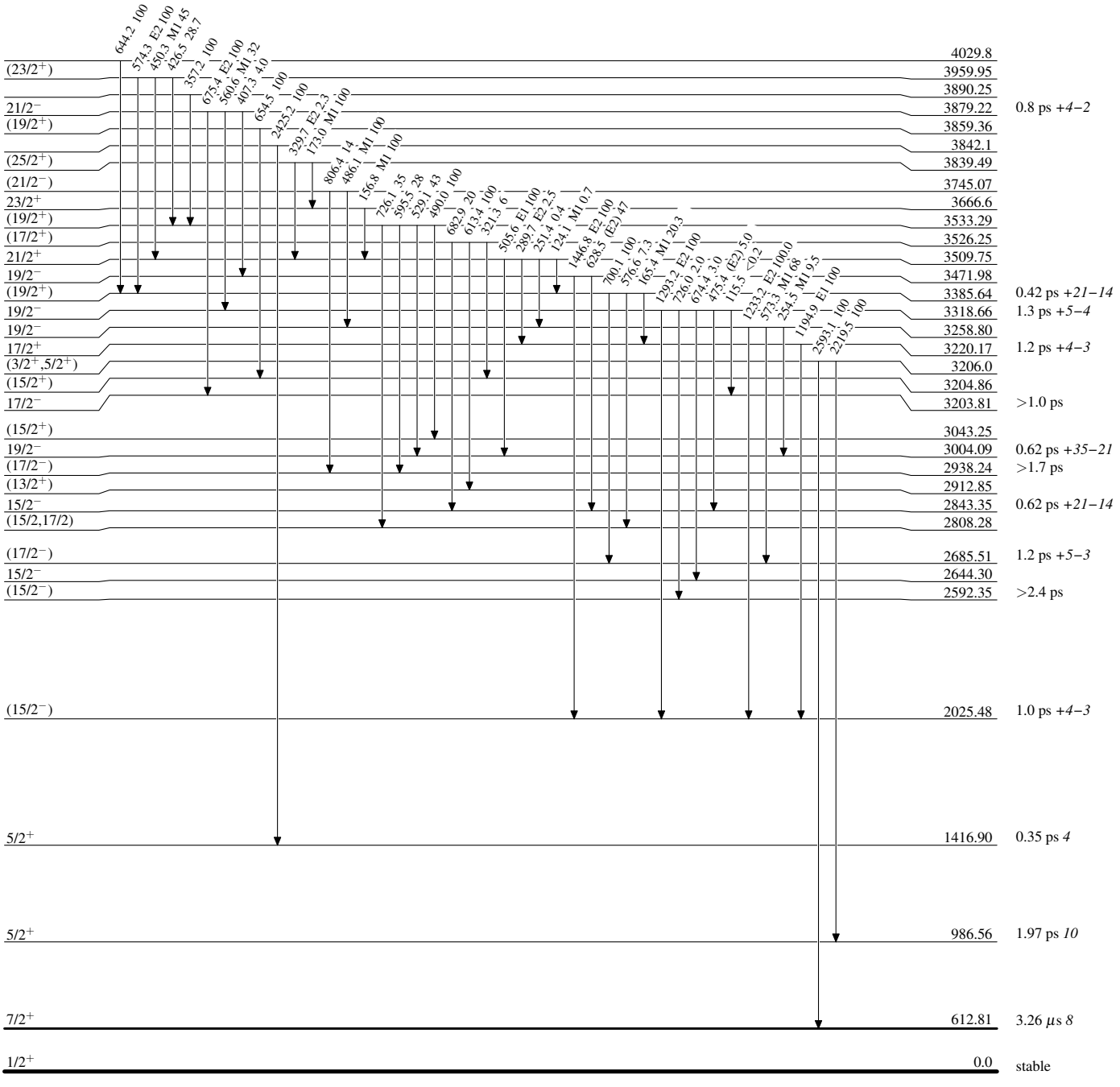


$^{115}_{50}Sn_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

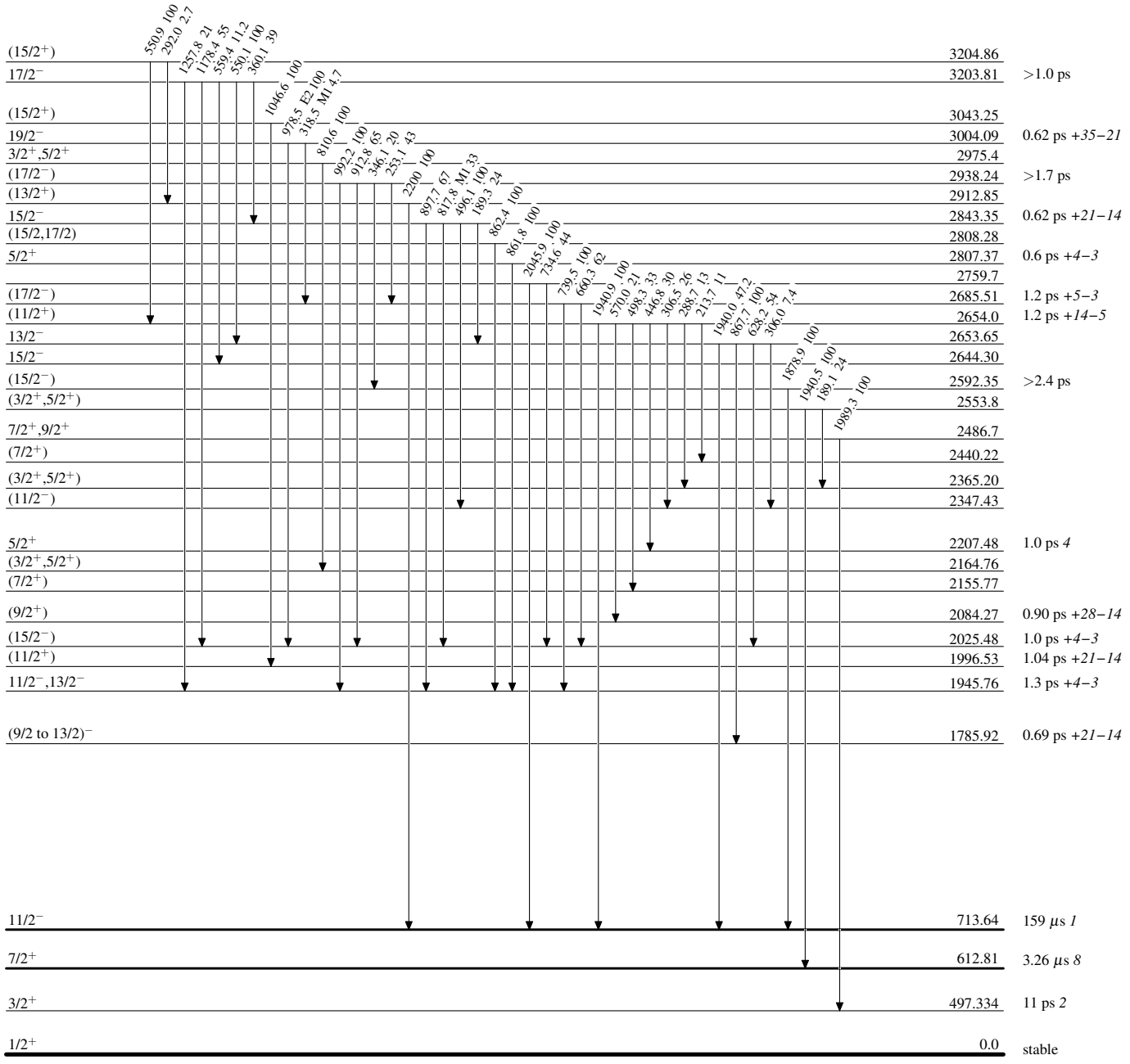


$^{115}_{50}Sn_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

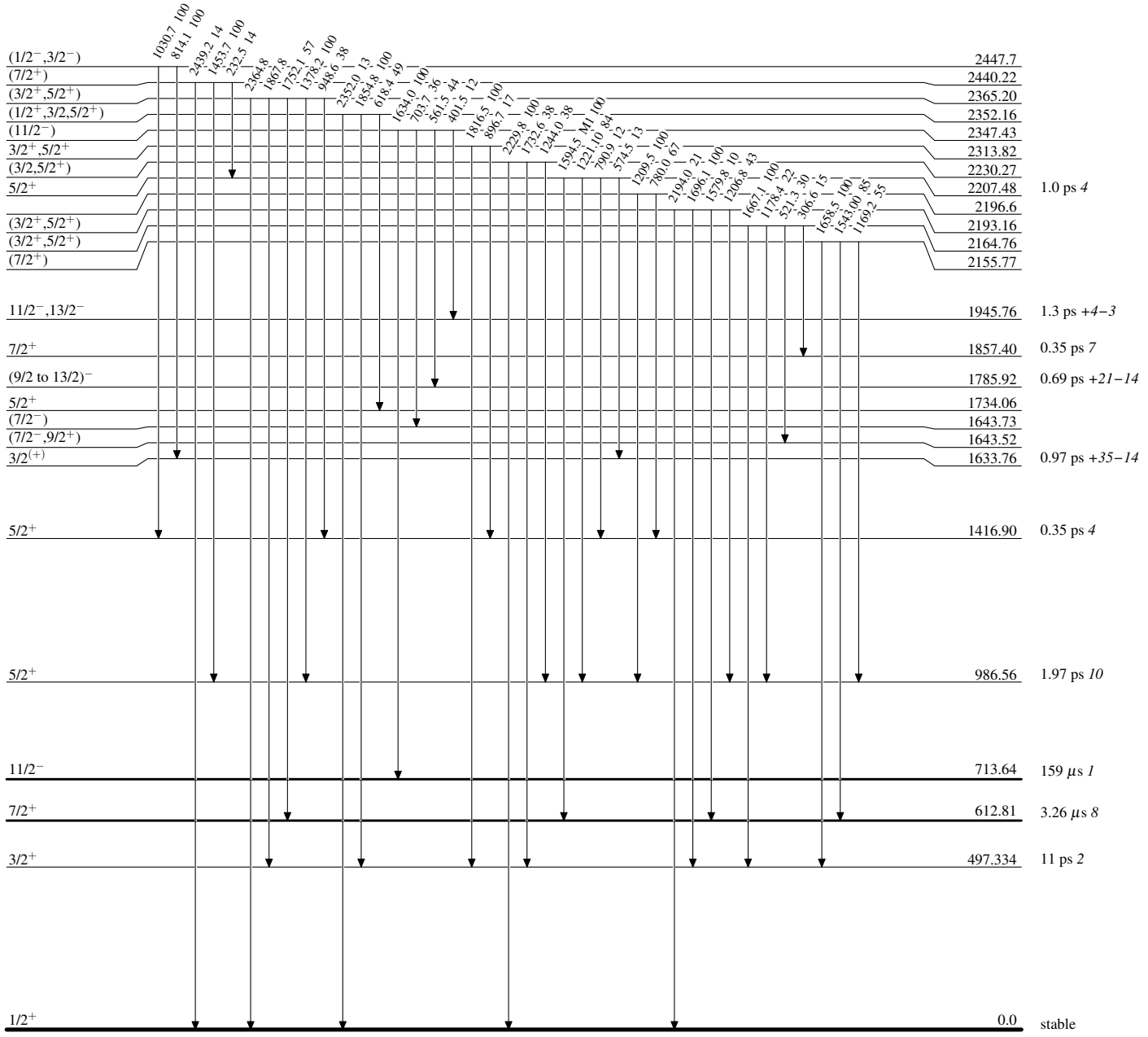


$^{115}_{50}Sn_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

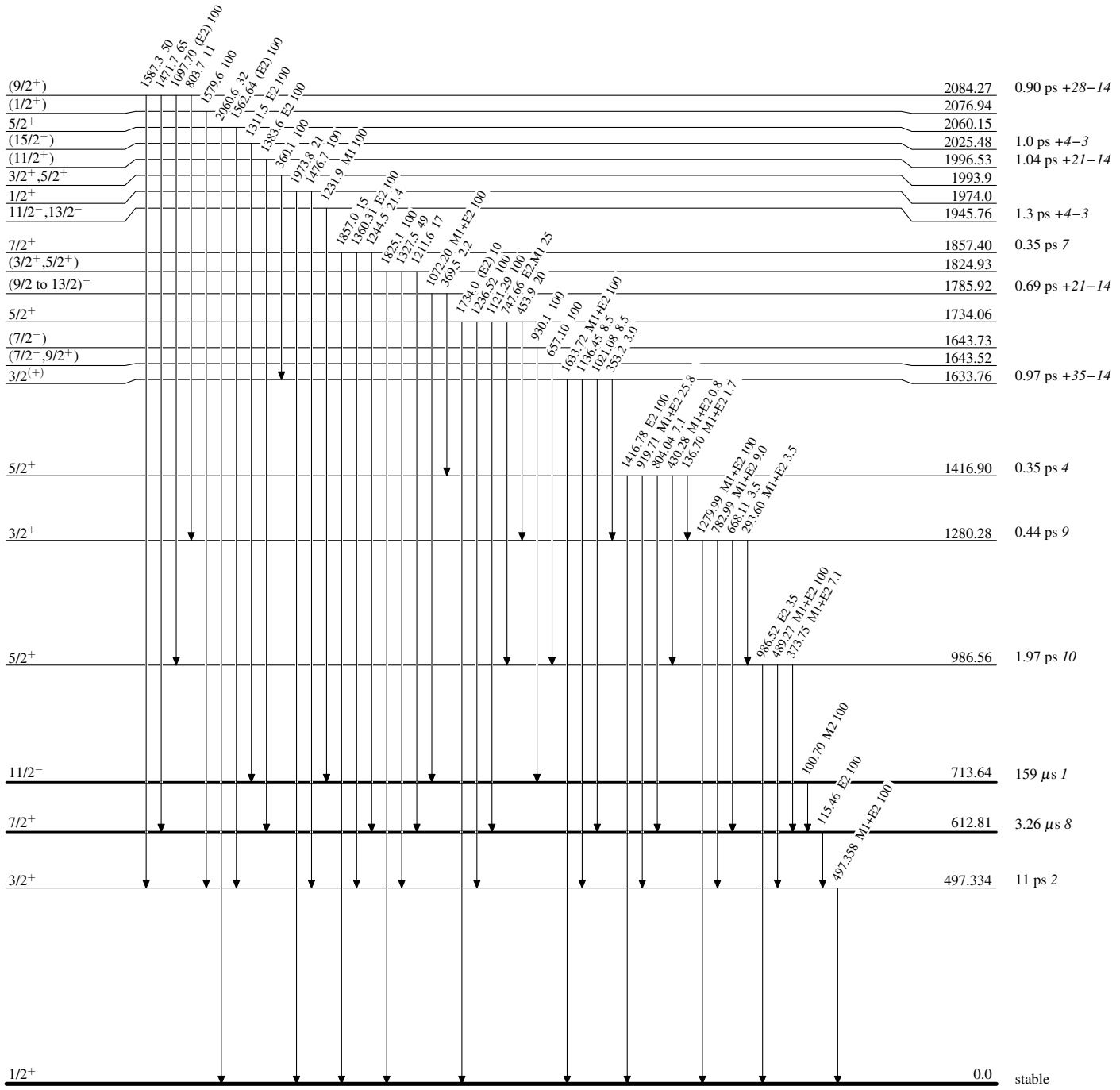
Intensities: Relative photon branching from each level



Adopted Levels, Gammas

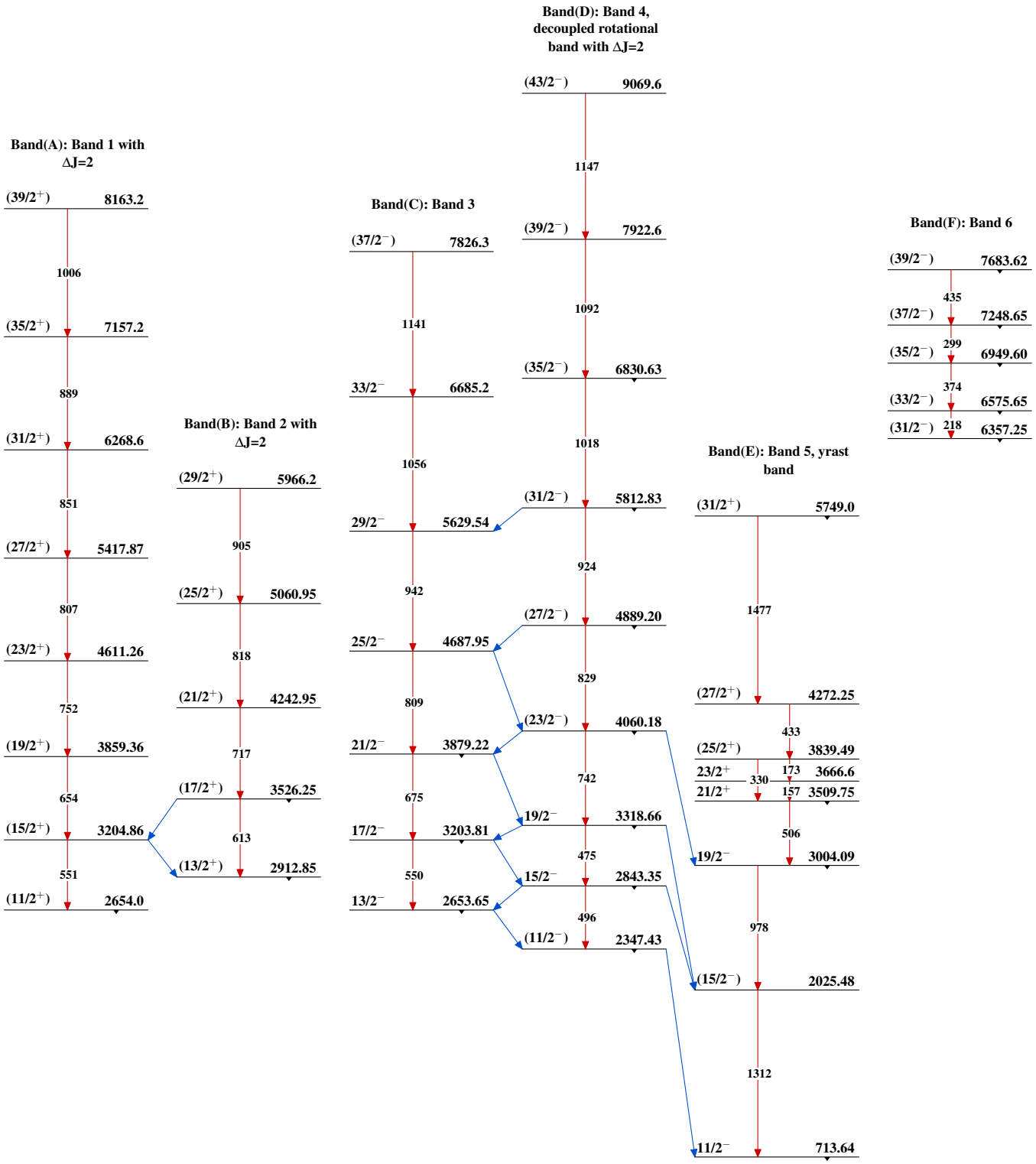
Level Scheme (continued)

Intensities: Relative photon branching from each level



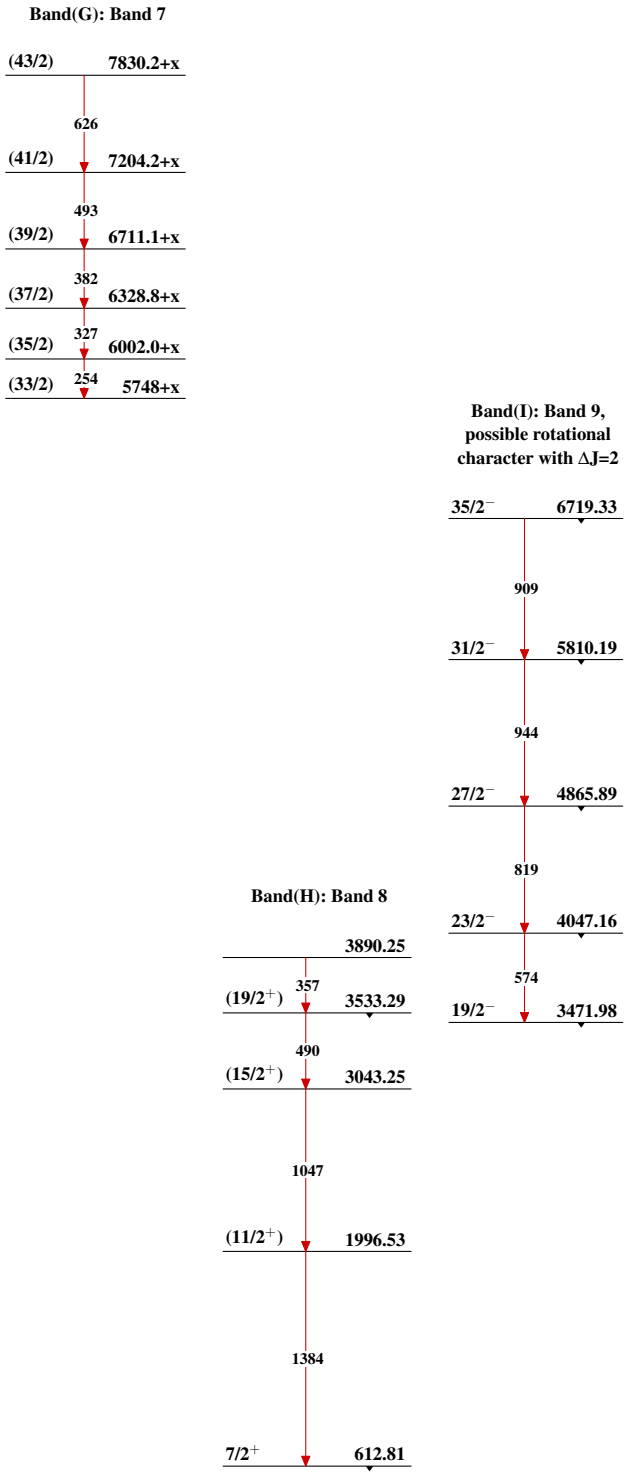
$^{115}_{50}Sn_{65}$

Adopted Levels, Gammas



$^{115}_{50}Sn_{65}$

Adopted Levels, Gammas (continued)



$^{115}_{50}Sn_{65}$