Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111,1619 (2010)	20-Jan-2009

Q(β^-)=401 *3*; S(n)=6170.2 *4*; S(p)=1.076×10^4 *4*; Q(α)=−5203.9 *14* 2012Wa38
Note: Current evaluation has used the following Q record 390.6 216170.3 *3* 10758 40-5205 3 2009AuZZ.

^{121}Sn Levels

Cross Reference (XREF) Flags

A	^{121}In β^- decay (23.1 s)	E	^{120}Sn(n,γ)	I	^{122}Sn(p,d) IAS
B	^{121}In β^- decay (3.88 min)	F	^{120}Sn(d,p)	J	^{122}Sn(p,d)
C	^{121}Sn IT decay	G	^{120}Sn(d,pγ)	K	^{124}Sn(^{80}Se,^{80}Se3nγ)
D	^{119}Sn(t,p)	H	^{120}Sn(t,d)		

E(level)†	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	3/2$^+$	27.03 h *4*	ABCDEFGH JK	%β^-=100 μ=+0.6978 *10*; Q=−0.02 *2* μ: ABLFS (2005St24); value relative to μ for ^{115}Sn, ^{117}Sn, ^{119}Sn. Q: ABLFS (2005St24). J$^\pi$: atomic beam J=3/2 (1978LeZA). L=2 in (t,p), (t,d), (p,d). T$_{1/2}$: from weighted average of 27.06 h *4* (1968Er03), 27.5 h *5* (1950Ne52), 27.0 h *6* (1963Ma20), 26.85 h *20* (1966La13); others: 28 h (1948Li02), 25.5 h *1* (1968Sn01).
6.31 *6*	11/2$^-$	43.9 y *5*	A C EFG JK	%β^-=22.4 *20*; %IT=77.6 *20* μ=−1.3877 *9*; Q=−0.14 *3* Configuration=(ν 1h$_{11/2}$) μ: ABLFS (2005St24); value relative to μ=−1.04728 *7* for ^{119}Sn. Q: ABLFS (2005St24). T$_{1/2}$: from 2002Re18. Others: 55 y *5* (1971Fl03), 40 y *10* (1971Or01), 25 y (1962Dr01). J$^\pi$: from LASER spectroscopy (1986An24). F-K-plot for the β^- decay to 7/2$^+$ level has ΔJ=2 yes shape (1968Sn01).
60.34 *2*	1/2$^+$		AB DEFGH J	J$^\pi$: L=0 in (d,p), (p,d), (t,d), (t,p).
663.63 *6*	7/2$^-$,9/2$^-$		A E	J$^\pi$: E1 γ from 7/2$^+$. α(k)exp for γ to 11/2$^-$ rules out mult=M3.
869.25 *5*	5/2$^+$		A DE G	J$^\pi$: L=2 in (t,p), M1+E2 γ from 7/2$^+$.
908.8 *3*	5/2$^+$		B DEFGH J	J$^\pi$: L=2 in (t,d), (t,p), (p,d). Fed from only one of sixteen J$^\pi$=1/2$^+$, 1/2$^-$, or 3/2$^-$ (n,γ) resonances rules out J$^\pi$=3/2$^+$.
925.59 *5*	7/2$^+$	0.25 ns *6*	A EFGH J	J$^\pi$: L=4 in (t,d), (p,d). log *ft*=4.3 from 9/2$^+$. γ to 3/2$^+$. T$_{1/2}$: from (β)(925γ)(t) (1976Fo02).
949.2 *5*	7/2$^-$		DEFGH	Configuration=(ν 1h$_{11/2}$7/2$^-$) or (^{120}Sn 2$^+$)(N ^{1}H$_{11/2}$) J$^\pi$: L=3 in (d,p). γ to 11/2$^-$. For J$^\pi$=5/2$^-$, the 943γ would be M3, and the T$_{1/2}$>17 μs from B(M3)(W.u.)<10. But J$^\pi$ contradicts L=0 in (t,d).
1031 *3*			F	
1067 *3*			F	
1101.52 *24*	3/2$^+$		B DEFGH	XREF: F(1098). J$^\pi$: L=2 in (t,p), (t,d), fed from 1/2$^+$ resonance in (n,γ).
1121.2 *5*	5/2$^+$		B DEFGH J	XREF: J(1140). J$^\pi$: L=2 in (d,p), (t,d), (t,p), (p,d); J=5/2 is consistent with analyzing power in (pol p,p) IAR.
1156 *3*			F	
1157	(15/2$^-$)		K	J$^\pi$: from γ to 11/2$^-$ and analogy of the 19/2$^+$ and 15/2$^-$ states in odd-mass Sn excitation in in-beam spectroscopy.
1247	(13/2$^-$)		K	J$^\pi$: from from γ to 11/2$^-$ and analogy of the 13/2$^-$ states in odd-mass Sn

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Adopted Levels, Gammas (continued)

^{121}Sn Levels (continued)

E(level)†	J^π	$T_{1/2}$	XREF	Comments
				excitation in in-beam spectroscopy.
1337 *4*			F	
1350.0 *38*	$(7/2^+,9/2^+)$		EF	J^π: L=(4) in (d,p).
1403.5 *5*	$5/2^+$		B DEFGH J	XREF: G(1404.9).
				J^π: L=2 in (pol p,p) IAR; J=5/2 is consistent with analyzing power in (pol p,p) IAR.
1432 *8*			D	
1450 *4*			F	
1498 *4*			F	
1537 *4*			F	
1571 *4*			F	
1653.2 *5*	$1/2^+,3/2$		E	J^π: γ to $5/2^+$. Fed by primary γ from $1/2^-$ resonance.
1710.0 *16*	$(3/2)^+$		EF H J	J^π: L=2 in (p,d); J=(3/2) from J-dependence of L=2 in (p,d).
1758.3 *9*	$(^+)$		FG	J^π: (E2,M1) γ to $3/2^+,5/2^+$.
1864 *4*			E H	
1876 *10*	$9/2^-,11/2^-$		D	J^π: L=5 in (t,p).
1877.0 *10*	$1/2^-,3/2^-$		EF	XREF: F(1866).
				J^π: L=1 in (d,p).
1910 *5*	$1/2^-,3/2^-$		F	J^π: L=1 in (d,p).
1912.3 *4*	$1/2^+$		DE H J	J^π: L=0 in (p,d).
1940.0 *26*	$(3/2)^+$		E H J	J^π: L=2 in (p,d); J=(3/2) from J-dependence of L=2 in (p,d).
1959 *5*	$(1/2^-,3/2^-)$		F	J^π: L=(1) in (d,p).
1960.4 *5*	$1/2^+$		DE H J	J^π: L=0 in (t,p).
1974.5 *10*			E	
1986 *10*	$(1/2^+)$		D J	J^π: L=(0) in (p,d).
1998	$(19/2^+)$	5.3 μs *5*	K	J^π: from γ's to $(13/2^-)$ and $(15/2^-)$, $T_{1/2}$, and analogy of the $19/2^+$ and $15/2^-$ states in ^{117}Sn in in-beam spectroscopy.
				$T_{1/2}$: from γ decay in $^{124}Sn(^{80}Se,^{80}Se^{3}n\gamma)$.
2067.5 *11*	$(3/2^+)$		DE	J^π: L=(2) in (t,p), fed from $1/2^+$ resonance in (n,γ).
2075 *5*	$(5/2^-,7/2^-)$		F	J^π: L=(3) in (d,p).
2113.6 *10*	$(3/2^+,5/2^+)$		DE H	J^π: L=(2) in (t,p), (t,d).
				E(level): doublet in (t,p) and (t,d).
2163.7 *7*	$(1/2,3/2)$		Ef	J^π: γ's to $1/2^+$, $3/2^+$, $(5/2)^+$.
2168 *2*	$7/2^+,9/2^+$		DEf	J^π: L=4 in (t,p).
2187	$(19/2^-)$‡		K	J^π: γ to $(15/2^-)$.
2190 *6*			F	
2220 *25*	$(3/2^+,5/2^+)$		J	J^π: L=(2) in (p,d).
2225 *10*	$(5/2^-,7/2^-)$		D F H	J^π: L=(3) in (t,d).
2238 *2*			E	
2242.9			EF H	
2256 *6*	$(3/2^+,5/2^+)$		F	J^π: L=(2) in (d,p).
2280 *25*	$1/2^+$		J	J^π: L=0 in (p,d).
2285.2 *5*	$3/2^+,5/2^+$		DEF	J^π: L=2 in (t,p), fed from $1/2^+$ resonance in (n,γ).
2330 *2*	$9/2^-,11/2^-$		DE J	J^π: L=5 in (t,p).
2361.0 *12*			EF	
2376 *3*	$(5/2^-,7/2^-)$		DE	J^π: L=(3) in (t,p).
2415 *10*			D	
2440 *3*	$(7/2^+,9/2^+)$		DEF	J^π: L=(4) in (t,p).
2457 *10*	$(1/2^+)$		H	J^π: L=(0) in (t,d).
2460 *5*	$(5/2^-,7/2^-)$		F	J^π: L=(3) in (d,p).
2498.7 *8*			E	
2514.0 *14*	$9/2^-,11/2^-$		DE J	J^π: L=5 in (p,d).
2524.0 *20*			E	
2558.0 *12*			E	
2589.0 *23*	$7/2^-$		DEF H	J^π: L=3 in (pol p,p) IAR, J=7/2 is consistent with analyzing power in

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Adopted Levels, Gammas (continued)

^{121}Sn Levels (continued)

E(level)†	J^{π}	$T_{1/2}$	XREF	Comments
				(pol p,p) IAR.
2652.0 *12*			E	
2658	$(23/2^-)$‡		K	J^{π}: γ to $(19/2^-)$.
2666 *2*	$7/2^-$		DEF H	J^{π}: L=3 in (pol p,p) IAR, J=7/2 is consistent with analyzing power in (pol p,p) IAR.
2700 *10*	$5/2^-,7/2^-$		D F H J	J^{π}: L=3 in (d,p), (t,d), (t,p).
2713.0 *16*	$7/2^+,9/2^+$		E J	J^{π}: L=4 in (p,d).
2748 *7*			F H	
2777 *7*			D F	
2804.0 *25*	$(3/2)^+$		EF J	J^{π}: L=2 in (p,d); J=(3/2) from J-dependence of L=2 in (p,d).
2811 *15*			D	
2834	$(27/2^-)$‡	0.167 μs *25*	K	J^{π}: γ to $(23/2^-)$. $T_{1/2}$: from γ decay in $^{124}Sn(^{80}Se,^{80}Se^{3}n\gamma)$.
2849.0 *14*	$(5/2^-,7/2^-)$		E J	J^{π}: L=(3) in (p,d).
2864.3 *5*	(1/2,3/2)		B D	J^{π}: log *ft*=6.2 from $1/2^-$ ^{121}In. γ to $1/2^+$.
2915 *7*	$(5/2^-,7/2^-)$		D F H	J^{π}: L=(3) in (d,p).
2930 *7*	$(7/2^-)$		F H	J^{π}: L=(3) in (pol p,p) IAR, J=7/2 is consistent with analyzing power in (pol p,p) IAR.
2951 *4*	$1/2^-,3/2^-$		dEf H J	XREF: d(2970)f(2955). J^{π}: L=1 in (p,d).
2961.0 *13*			dEf	XREF: d(2970)f(2955).
2999.0 *13*	$3/2^+$		EF H J	XREF: H(3009). J^{π}: L=2 in (p,d); J= 3/2 from J-dependence of L=2 in (p,d).
3028 *8*	$(7/2^-)$		D F H	XREF: D(3036)H(3020). J^{π}: L=(3) in (pol p,p) IAR, J=7/2 is consistent with analyzing power in (pol p,p) IAR.
3076.5 *10*			EF	XREF: F(3069).
3096 *8*			F H	
3107 *8*	$(1/2^-,3/2^-)$		D F H	J^{π}: L=(1) in (d,p).
3120.1 *14*			B	
3138.0 *15*	$(7/2^-)$		E	J^{π}: L=(3) in (pol p,p) IAR, J=7/2 is consistent with analyzing power in (pol p,p) IAR.
3140 *25*	$(3/2^+,5/2^+)$		f J	XREF: f(3136). J^{π}: L=2 in (p,d).
3154.0 *14*	$(5/2^-,7/2,9/2^+)$		DEf	XREF: f(3136). J^{π}: L=(3,4) in (t,p).
3172 *4*			EF	
3223 *8*			F J	
3228? *2*			B	
3320 *15*	$7/2^-$		D H	J^{π}: L=3 in (t,p); J=7/2 is consistent with analyzing power in (pol p,p) IAR. E(level): average of 3326 *15* from (t,p) and 3314 *15* from (t,d).
3321 *9*	$(1/2^-,3/2^-)$		F H	XREF: H(3303). J^{π}: L=(1) in (d,p).
3350 *9*			F	
3382.0 *13*	$(7/2^+,9/2^+)$		DEF H	J^{π}: L=(4) in (t,p).
3396.0 *14*	$3/2^-$		EF H	J^{π}: L=1 in (pol p,p) IAR, 3/2 is consistent with analyzing power in (pol p,p) IAR.
3434 *9*	$(1/2^+)$		F	J^{π}: L=(0) in (d,p).
3459 *9*			F	
3499 *9*	$(5/2^-,7/2,9/2^+)$		D F H	J^{π}: L=(3,4) in (t,d), (d,p).
3510.0 *7*	$3/2^-$		EF	XREF: F(3515). J^{π}: L=1 in (pol p,p) IAR, 3/2 is consistent with analyzing power in (pol p,p) IAR.
3518.0 *10*			E	

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Adopted Levels, Gammas (continued)

^{121}Sn Levels (continued)

E(level)†	J$^\pi$	T$_{1/2}$	XREF	Comments
3520 *15*	(5/2$^-$,7/2,9/2$^+$)		D H	J$^\pi$: L=(3,4) in (t,p), (t,d). E(level): average of 3532 *15* from (t,p) and 3507 *15* from (t,d).
3532 *15*			D	
3579 *9*			F H	
3613 *15*			H	
3620 *9*	(5/2$^-$,7/2$^-$)		D F	J$^\pi$: L=(3) in (d,p).
3658 *15*			H	
3680.0 *13*	3/2$^-$		EF H	J$^\pi$: L=1 in (d,p), 3/2 is consistent with analyzing power in (pol p,p) IAR.
3730 *10*	1/2$^-$,3/2$^-$		F H	J$^\pi$: L=1 in (d,p).
3762.5 *17*	1/2$^-$,3/2$^-$		EF	J$^\pi$: L=1 in (d,p).
3798 *10*	1/2$^-$,3/2$^-$		F	J$^\pi$: L=1 in (d,p).
3814 *10*	1/2$^-$,3/2$^-$		F	J$^\pi$: L=1 in (d,p).
3857 *10*	1/2$^-$,3/2$^-$		F	J$^\pi$: L=1 in (d,p).
3875 *10*	1/2$^-$,3/2$^-$		F	J$^\pi$: L=1 in (d,p).
3932.5 *15*	1/2$^-$,3/2$^-$		EF	J$^\pi$: L=1 in (d,p).
3960 *10*	1/2$^-$,3/2$^-$		F	J$^\pi$: L=1 in (d,p).
3984 *10*	1/2$^-$,3/2$^-$		F	J$^\pi$: L=1 in (d,p).
4020 *10*			F	
4059.0 *15*			EF	XREF: F(4046).
4073 *11*			F	
4094 *11*			F	
4111 *11*			F	
4144 *11*			F	
4171 *11*	1/2$^-$,3/2$^-$		F	J$^\pi$: L=1 in (d,p).
4199 *11*			F	
4264 *11*	(1/2$^-$,3/2$^-$)		F	J$^\pi$: L=(2) in (d,p).
4274 *3*			EF	XREF: F(4277).
4330 *11*			F	
4401 *11*			F	
4453 *12*			F	
4468 *12*			F	
4519.0 *11*			EF	XREF: F(4498).
4540.0 *10*			EF	XREF: F(4539).
4646 *25*			F	
4680 *25*	(1/2$^-$,3/2$^-$)		F	J$^\pi$: L=(1) in (d,p).
4736 *25*	(5/2$^-$,7/2,9/2$^+$)		F	J$^\pi$: L=(3,4) in (d,p).
4773 *25*			F	
4826 *25*	(5/2$^-$,7/2,9/2$^+$)		F	J$^\pi$: L=(3,4) in (d,p).
4905 *25*			F	
5051.0 *16*			E	
15953 *50*	9/2$^+$	40 keV *8*	I	J$^\pi$: IAS ^{121}In g.s.
16304 *50*	1/2$^-$	36 keV *7*	I	J$^\pi$: IAS ^{121}In 313.6-keV state.
16610 *50*	3/2$^-$	37 keV *4*	I	J$^\pi$: IAS ^{121}In 637.86-keV state.

† E(levels)(ΔE≤1.0 keV) with γ decay are from least-squares fit to Eγ's; Other E(levels) with ΔE≤1.0 keV are from (n,γ); E(levels) with ΔE=3-11 keV are from (d,p). A comparison of the energies with adopted values indicates that the (d,p) values are about 9 keV low. When the (d,p) energies are used in Adopted Levels, evaluators increase by 9 keV; other E(levels) are either noted or clearly indicated in cross reference; For level above about 3000 keV, it is difficult to make a unique one-to-one correspondence among the levels reported in different reactions.

‡ Possible (ν h11/2)^n seniority 3 scheme was predicted from fractional parentage calculation (1995Da26).

γ(^{121}Sn)

E$_i$(level)	J$^\pi_i$	E$_\gamma$†	I$_\gamma$†	E$_f$	J$^\pi_f$	Mult.‡	δ	α#	Comments
6.31	11/2$^-$	6.29 8	100	0.0	3/2$^+$	[M4]		8.7×10^{10} 10	α(L)=5.6×10^{10} 6; α(M)=2.6×10^{10} 3; α(N+..)=4.7×10^9 6 α(N)=4.7×10^9 6; α(O)=1.38×10^7 14 B(M4)(W.u.)=6.02 19 E$_\gamma$: from energy difference between 919.28γ and 925.57γ. B(M4)(W.u.) using Eγ^9×′ (1+α)=1.345×10^{18} 20.
60.34	1/2$^+$	60.34 2	100	0.0	3/2$^+$	M1		2.40	α(K)=2.07 3; α(L)=0.266 4; α(M)=0.0522 8; α(N+..)=0.01064 15 α(N)=0.00980 14; α(O)=0.000844 12
663.63	7/2$^-$,9/2$^-$	657.32 7	100	6.31	11/2$^-$	M1,E2		0.0038 3	α(K)=0.0033 3; α(L)=0.000411 21; α(M)=8.1×10^{-5} 4; α(N+..)=1.64×10^{-5} 10 α(N)=1.51×10^{-5} 8; α(O)=1.29×10^{-6} 12
869.25	5/2$^+$	808.9 1	20 4	60.34	1/2$^+$				
		869.31 10	100 9	0.0	3/2$^+$	(E2,M1)		0.00196 19	α(K)=0.00170 17; α(L)=0.000207 17; α(M)=4.1×10^{-5} 4; α(N+..)=8.3×10^{-6} 7 α(N)=7.6×10^{-6} 7; α(O)=6.6×10^{-7} 7
908.8	5/2$^+$	848.2 5	67	60.34	1/2$^+$				
		908.8 4	100	0.0	3/2$^+$				
925.59	7/2$^+$	56.35 2	0.22 2	869.25	5/2$^+$	M1+E2	1.0 3	7.7 17	α(K)=4.5 7; α(L)=2.5 8; α(M)=0.51 16; α(N+..)=0.09 3 α(N)=0.09 3; α(O)=0.0031 7 B(M1)(W.u.)=0.00047 23; B(E2)(W.u.)=1.1×10^2 6 Mult.: from α deduced intensity balance at 869 level in ^{121}In β^- decay (23.1 s).
		261.96 3	9.1 6	663.63	7/2$^-$,9/2$^-$	E1		0.0123	α(K)=0.01069 15; α(L)=0.001301 19; α(M)=0.000253 4; α(N+..)=5.12×10^{-5} 8 α(N)=4.73×10^{-5} 7; α(O)=3.88×10^{-6} 6 B(E1)(W.u.)=4.8×10^{-6} 13
		919.28 7	4.8 3	6.31	11/2$^-$				B(M2)(W.u.)=0.32 9
		925.57 7	100 7	0.0	3/2$^+$	(E2)		0.001531 22	B(E2)(W.u.)=0.081 21 α(K)=0.001328 19; α(L)=0.0001644 23; α(M)=3.21×10^{-5} 5; α(N+..)=6.54×10^{-6} α(N)=6.03×10^{-6} 9; α(O)=5.11×10^{-7} 8
949.2	7/2$^-$	942.9 5	100	6.31	11/2$^-$	(E2,M1)		0.00163 16	α(K)=0.00141 15; α(L)=0.000172 15; α(M)=3.3×10^{-5} 3; α(N+..)=6.8×10^{-6} 6 α(N)=6.3×10^{-6} 6; α(O)=5.5×10^{-7} 6
1101.52	3/2$^+$	1041.1 5	59	60.34	1/2$^+$				
		1101.6 3	100	0.0	3/2$^+$	(E2,M1)		0.00115 11	α(K)=0.00100 10; α(L)=0.000120 11; α(M)=2.35×10^{-5} 20; α(N+..)=5.3×10^{-6} 4

Adopted Levels, Gammas (continued)

$\gamma(^{121}Sn)$ (continued)

E_i(level)	J^π_i	E_γ†	I_γ†	E_f	J^π_f	Mult.‡	α#	Comments
								α(N)=4.4×10^{-6} *4*; α(O)=3.9×10^{-7} *4*; α(IPF)=4.7×10^{-7} *4*
1121.2	5/2$^+$	1060.7 *10*	11	60.34	1/2$^+$			
		1121.2 *5*	100	0.0	3/2$^+$			
1157	(15/2$^-$)	1151		6.31	11/2$^-$			
1247	(13/2$^-$)	1241		6.31	11/2$^-$			
1403.5	5/2$^+$	1403.5 *5*	100	0.0	3/2$^+$			
1653.2	1/2$^+$,3/2	553.2 *10*	51	1101.52	3/2$^+$			
		782.9 *10*	100	869.25	5/2$^+$			
		1653.0 *5*	93	0.0	3/2$^+$			
1758.3	($^+$)	656.8 *8*	100	1101.52	3/2$^+$	(E2,M1)	0.0038 *3*	α(K)=0.0033 *3*; α(L)=0.000412 *21*; α(M)=8.1×10^{-5} *4*; α(N+..)=1.64×10^{-5} *10* α(N)=1.51×10^{-5} *9*; α(O)=1.29×10^{-6} *12*
1877.0	1/2$^-$,3/2$^-$	1816.6 *10*	100	60.34	1/2$^+$			
1912.3	1/2$^+$	810.5 *5*	100	1101.52	3/2$^+$			
		1852.3 *5*	100	60.34	1/2$^+$			
1960.4	1/2$^+$	1051.4 *10*	37	908.8	5/2$^+$			
		1091.7 *10*	100	869.25	5/2$^+$			
		1899.9 *5*	56	60.34	1/2$^+$			
1998	(19/2$^+$)	752		1247	(13/2$^-$)	[E3]	0.00584 *9*	α(K)=0.00496 *7*; α(L)=0.000716 *10*; α(M)=0.0001418 *20*; α(N+..)=2.84×10^{-5} *4* α(N)=2.63×10^{-5} *4*; α(O)=2.07×10^{-6} *3* B(E3)(W.u.)=1.9×′ γ branching.
		841		1157	(15/2$^-$)	[M2]	0.00602 *9*	α(K)=0.00520 *8*; α(L)=0.000656 *10*; α(M)=0.0001288 *18*; α(N+..)=2.64×10^{-5} *4* α(N)=2.43×10^{-5} *4*; α(O)=2.12×10^{-6} *3* B(M2)(W.u.)=5.7×10^{-4}×′ γ branching.
2067.5	(3/2$^+$)	966.0 *10*	100	1101.52	3/2$^+$			
2113.6	(3/2$^+$,5/2$^+$)	2113.6 *10*	100	0.0	3/2$^+$			
2163.7	(1/2,3/2)	1254.5 *10*	48	908.8	5/2$^+$			
		2103.7 *10*	100	60.34	1/2$^+$			
		2163.7 *20*	30	0.0	3/2$^+$			
2187	(19/2$^-$)	1030		1157	(15/2$^-$)			
2242.9		1141.7 *10*	20	1101.52	3/2$^+$			
		2242.8 *5*	100	0.0	3/2$^+$			
2285.2	3/2$^+$,5/2$^+$	2285.2 *5*	100	0.0	3/2$^+$			
2524.0		2524.0 *20*	100	0.0	3/2$^+$			
2658	(23/2$^-$)	471		2187	(19/2$^-$)			
2834	(27/2$^-$)	176		2658	(23/2$^-$)	[E2]	0.217	B(E2)(W.u.)=0.46 *7* α(K)=0.1750 *25*; α(L)=0.0339 *5*; α(M)=0.00680 *10*; α(N+..)=0.001301 *19* α(N)=0.001229 *18*; α(O)=7.20×10^{-5} *10*
2864.3	(1/2,3/2)	2803.8 *7*	100	60.34	1/2$^+$			

$^{121}_{50}Sn_{71}$-6

Adopted Levels, Gammas (continued)

$\gamma(^{121}Sn)$ (continued)

E_i(level)	J^{π}_i	E_γ †	I_γ †	E_f	J^{π}_f
2864.3	(1/2,3/2)	2864.3 *7*	91 *37*	0.0	$3/2^+$
3120.1		3059.7 *14*	100	60.34	$1/2^+$

† From ^{121}In β^- decay (23.1 s, 3.88 min); others from $^{120}Sn(n,\gamma)$.
‡ From conversion electron data in ^{121}In β^- decay (23.1 s, 8.3 s), unless noted otherwise.
# 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.

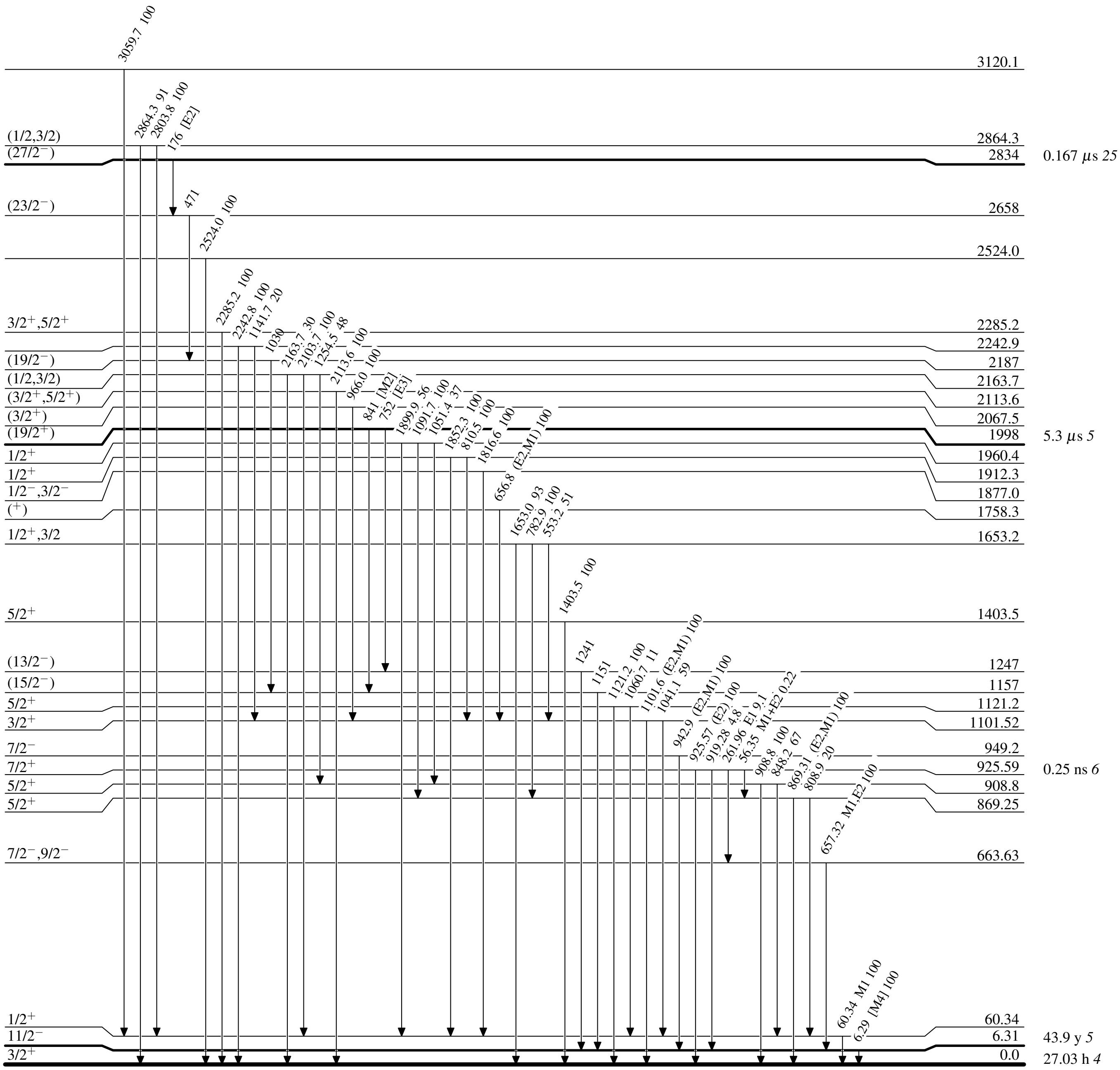
From ENSDF

$^{121}_{50}Sn_{71}$-7

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level



$^{121}_{50}Sn_{71}$