Adopted Levels, Gammas

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

Q(β^-)=497.490 *10*; S(n)=9039.3 *9*; S(p)=6810.5 *4*; Q(α)=−3745.0 *16* 2012Wa38
Note: Current evaluation has used the following Q record 497.489 109036.8 *156807.2* *16*−3743.3 *22* 2011AuZZ.

^{115}In Levels

Experimental level properties are compared with various model calculations by 1972At01, 1975Di12, 1976He16, 1977He25, 1978He08, 1983Ko40.
E(levels)>2550, except 2815 and 3110 from (^{3}He,d),(d,^{3}He) have not been adopted.

Cross Reference (XREF) Flags

A	Coulomb excitation	F	^{115}In(d,d′)	K	^{118}Sn(p,α)
B	^{114}Cd(p,p),(p,p′) IAR	G	^{115}In(γ,γ')	L	^{115}In(p,p′)
C	^{114}Cd(^{3}He,d)	H	^{115}In(n,n′γ)	M	^{115}In(γ,xn)
D	^{115}Cd β^- decay (44.56 d)	I	^{115}In IT decay (4.486 h)	N	^{100}Mo(^{18}O,p2n)
E	^{115}Cd β^- decay (53.46 h)	J	^{116}Sn(d,^{3}He)	O	^{238}U(^{12}C,xγ)

E(level)†	J$^\pi$#	T$_{1/2}$	XREF	Comments
0.0@	9/2$^+$	4.41×10^{14} y *25*	A CDEFGHIJK NO	%β^-=100 Q=+0.86 *4* (1978LeZA) μ=+5.5408 *2* (1989Ra17) Q: others: +0.810, 0.79 *20*, 0.83 *10*, 0.58 *9*, all from (1989Ra17). J$^\pi$: L=4 (^{3}He,d),(d,^{3}He),(p,α), M4 γ from 1/2$^-$. T$_{1/2}$: from measured β spectrum of scin solution spiked with indium salt (1978Pf01,1979Pf01). Others: 5.1×10^{14} y *4* (1962Wa15), 6.9×10^{14} y 15 (1961Be15), 6×10^{14} y *2* (1950Ma76), ≈1×10^{14} y (1951Co19).
336.244 *17*	1/2$^-$	4.486 h *4*	A CDEF HIJK	%IT=95.0 *7*; %β^-=5.0 *7* μ=−0.24398 *5* (1989Ra17) J$^\pi$: atomic beam (1961Ki02), L=1 (^{3}He,d),(d,^{3}He),(p,α). T$_{1/2}$: from (1974Ha39), agrees with 4.485 h *4* (1987Ne01).
597.144 *18*	3/2$^-$	≤0.25 ns	A CDEF H JK	T$_{1/2}$: from $\beta\gamma$(t), $\gamma\gamma$(t) (1967Na04). J$^\pi$: M1+E2 decay to 1/2$^-$ state, $\beta\gamma(\theta)$. L=1 (^{3}He,d),(d,^{3}He),(p,α). B(E3)=0.0057 *4* Coul. ex.
828.588 *17*	3/2$^+$	5.78 ns *6*	CDE H O	Q=−0.60 *2* (1989Ra17); μ=+0.74 *13* Analog: 660-keV ^{117}In 3/2$^+$ state; μ=+0.938, Q=−0.64. T$_{1/2}$: from 1971Sv01, $\beta\gamma$(t) scin-semi. Others: 5.73 ns *7*, 6.09 ns *10* via alternate data analyses. J$^\pi$: E1 γ to 1/2$^-$ from 828, M1(+E2) γ to 9/2$^+$ from 934 and E2 γ connecting 934 and 828 uniquely establish J^π(828)=3/2$^+$ and J^π(934)=7/2$^+$.
864.139 *18*	1/2$^+$‡	0.91 ns *3*	C E H	T$_{1/2}$: from 1971Sv01 $\beta\gamma$(t) scin-semi. J$^\pi$: E1 decay to 1/2$^-$ state, M1+E2 to 3/2$^+$ state, $\gamma\gamma(\theta)$.
933.780a *18*	7/2$^+$	57 ps *5*	CD H J O	T$_{1/2}$: from 1973Se06 (484γ)(934γ)(t) scin. J$^\pi$: see 828 level.
941.424 *7*	5/2$^+$	15.1 ps *14*	A DEFGH	T$_{1/2}$: from B(E2)=0.00272 *18* and adopted branching. J$^\pi$: E2 to 9/2$^+$, E1 to 3/2$^-$.

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Adopted Levels, Gammas (continued)

^{115}In Levels (continued)

E(level)[†]	Jπ[#]	$T_{1/2}$	XREF	Comments
1041.44 *23*	5/2⁻		E H JK	Jπ: L=3 (d,^{3}He),(p,α); strong branch to 1/2⁻ state.
1078.16 *7*	5/2⁺	0.99 ps *5*	A D FGH JK	$T_{1/2}$: av: 1.12 ps *17* res fluorescence (1981Ca10), 0.86 ps *5* (1976Tu02) from B(E2)=0.0227 and Iγ(1078γ)-branching=83.7%. Jπ: L=2 (p,α); E2 to 9/2⁺.
1132.576 *9*	11/2⁺	0.065 ps *3*	A D FGH K O	$T_{1/2}$: average of 0.064 ps *4* (1977Ca14) and 0.065 ps *3* (1975Bo40) res fluorescence. Jπ: L=6 (p,α); M1+E2 decay to 9/2⁺ g.s.
1192.491 *21*	(3/2)		E	Jπ: deexcites to 1/2,1/2⁺,5/2⁺ states, log *ft*=8.6 from 1/2⁺ parent.
1287.41 *5*	1/2,3/2⁻,5/2⁻		E	Jπ: deexcites to 1/2⁻,3/2 states, log *ft*=9.1 from 1/2⁺ parent.
1290.592[@] *10*	13/2⁺	0.42 ps *4*	A D FGH JK NO	$T_{1/2}$: average of 0.46 ps *4* (1981Ca10) res fluorescence, 0.38 ps *3* from B(E2)=0.0565 and Iγ(1291γ)-branching=97.6%. Jπ: L=6 (p,α). Adopted $T_{1/2}$ inconsistent with measured B(E2) if J=11/2.
1347.5 *7*	(5/2⁻)		H	Jπ: from the fitting of the γ angular distribution in (n,n′γ) by a statistical model.
1418.249[a] *10*	(11/2⁺)		D H O	E(level): from band assignment. Jπ: γ to 5/2⁺ not consistent with 11/2⁺; (484γ)(934γ)(θ) is consistent with J(initial)=9/2 (1975Bo29).
1448.787 *9*	9/2⁺	0.35 ps *4*	A CD FGH JK	$T_{1/2}$: from 1981Ca10 res fluorescence. Jπ: M1 decay to 11/2⁺ state, L=4 (^{3}He,d),(d,^{3}He),(p,α).
1463.5 *6*	7/2⁺	0.063 ps *10*	A FGH	$T_{1/2}$: average of 0.066 *8* (1977Ca14) and 0.059 ps *15* (1973Bo17) res fluorescence. Jπ: M1+E2 decays to 5/2⁺,9/2⁺ states, Coul. ex.
1470 *12*	(1/2⁻,3/2⁻)		J	Jπ: L=(1) (d,^{3}He).
1478.49 *17*			D	
1486.110 *10*	9/2⁺	0.44 ps *6*	A D FGH JK	XREF: J(1480). $T_{1/2}$: from 1981Ca10. Other: 0.52 ps *22* (1973Bo17) res fluorescence. Jπ: L=4 (p,α), M1+E2 decay to 11/2⁺ state, Coul. ex.
1497.2 *8*	(7/2⁺)[‡]	0.17 ps *2*	GH	$T_{1/2}$: from 1981Ca10 in (γ,γ′).
1602.3 *10*	(7/2⁺)[‡]		H k	
1608.1 *7*	(7/2⁺)[‡]	0.11 ps *2*	FGH k	$T_{1/2}$: from 1981Ca10 in (γ,γ′).
1650 *2*	(1/2⁻,3/2⁻)		JK	Jπ: L=1 (d,^{3}He),(p,α). L=2 (^{3}He,d) could be a separate level. It is not adopted since those results are as yet unpublished.
1736.9 *6*	(9/2⁺)[‡]		C H K	XREF: C(1745).
1801.0 *8*	(5/2⁺)[‡]		H	
1830.9 *8*	(5/2⁺)[‡]		H	
1864 *2*			F K	XREF: K(1848).
1872.4 *8*	(9/2⁻)[‡]		C H K	XREF: C(1880)K(1880).
1917.6 *10*			F H K	
1971.6 *7*	(9/2⁺)[‡]		H K	XREF: K(1960).
1978.3 *7*	7/2⁺,9/2⁺[‡]		F H JK	XREF: J(1980)K(1986). Jπ: L=4 (d,^{3}He) excitation.
1999.1 *6*	(7/2⁺)[‡]		C F H	XREF: C(2015).
2057.3 *10*	(5/2⁺)[‡]		H	
2071.0 *4*	7/2,9/2⁻		FGH	Jπ: L=3 (d,d′).
2088	(13/2)⁻		F	Jπ: L=3 in (d,d′).
2107.82 *20*	7/2,9/2,11/2⁻		FGH	Jπ: L=3 in (d,d′), Jπ=5/2⁺ in (n,n′γ).
2113.7 *7*	(9/2⁺)		H	

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Adopted Levels, Gammas (continued)

^{115}In Levels (continued)

E(level)[†]	Jπ[#]	XREF	Comments
2119.0[a] *18*	(15/2+)	O	
2131 *7*	1/2−,3/2−	JK	L=1 (d,^{3}He).
2136.79[&] *10*	(15/2−)	F NO	Jπ: L=3 in (d,d′);
2170.7 *10*	(5/2+)[‡]	F H	
2208 *2*	1/2+	C F	XREF: C(2195). Jπ: L=0 (^{3}He,d) excitation.
2230 *20*	5/2−,7/2−	JK	XREF: K(2219). Jπ: L=3 (d,^{3}He).
2234.0 *10*	(5/2+)[‡]	H	
2254.2 *12*	(17/2+)	K O	
2264.0 *8*	(7/2+)	H Jk	XREF: J(2230).
2282.99[&] *15*	(17/2−)	NO	
2283.4 *7*	(7/2+,9/2+)[‡]	GH k	
2309.5[@]	(17/2+)	NO	
2318 *10*		K	
2384.6 *3*	7/2−,9/2−,11/2−	FGH K	XREF: K(2369). Jπ: negative parity of the level from L=3 in (d,d′).
2434 *2*	(15/2)−	F	Jπ: negative parity of the level from L=3 in (d,d′).
2443.13 *20*	7/2,9/2,11/2−	C FGH K	XREF: C(2445). Jπ: negative parity of the level from L=3 in (d,d′).
2450 *25*	1/2−,3/2−	C J	XREF: C(2445). L=1 (d,^{3}He).
2451 *2*	(13/2)−	F	Jπ: negative parity of the level from L=3 in (d,d′).
2479.7 *3*	7/2−,9/2−,11/2−	FG	Jπ: negative parity of the level from L=3 in (d,d′).
2489 *7*	5/2−,7/2−	JK	XREF: J(2520). Jπ: L=3 (p,α).
2539.09[&] *18*	(19/2−)	NO	
2540.73 *20*	7/2−,9/2−,11/2−	FG K	Jπ: negative parity of the level from L=3 in (d,d′).
2580.0 *3*		G	
2646.0 *13*		O	
2739.94 *20*		G	
2746.7 *4*		G	
2815	1/2+	C	Jπ: L=0 (^{3}He,d).
2827.5 *3*		G	
2831.4[&] *18*	(21/2−)	O	
2852.2 *4*		G	
2860 *10*	1/2−,3/2−	J	L=1 (d,^{3}He).
2878.4[@] *13*	(21/2+)	O	
2896.7 *4*		G	
2947.0[a] *20*	(19/2+)	O	
2960.4[@] *17*	(23/2+)	O	
2994.4 *6*		G	
3037.4[&] *19*	(23/2−)	O	
3042.9 *5*		G	
3096.4[@] *19*	(25/2+)	O	
3110	3/2+,5/2+	C	Jπ: L=2 (^{3}He,d).
3158.2 *7*		G	
3183.4[&] *23*	(25/2−)	O	
3220.7 *6*		G	
3231.5 *3*		G	
3272.0 *3*		G	

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Adopted Levels, Gammas (continued)

^{115}In Levels (continued)

E(level)†	Jπ#	XREF	E(level)†	Jπ#	XREF
3289.0 *4*		G	3701.1 *5*		G
3386.6 *4*		G	3847.7& *24*	(27/2$^-$)	0
3395.1 *5*		G	4041.4@ *24*	(29/2$^+$)	0
3472.4@ *22*	(27/2$^+$)	0	4583.1& *24*	(29/2$^-$)	0
3684.7 *9*		G			

† From least-squares fit to γ energies.

‡ From the fitting of the γ angular distribution in (n,n$'\gamma$) by a statistical model.

J^π based on γ properties derived from DCO ratios.

@ Band(A): $\pi g_{9/2}^{-1}\nu h_{11/2}^{2}$.

& Band(B): $\pi g_{9/2}^{-1}\nu h_{11/2}^{1}(\nu(d_{5/2}$ and/or $g_{7/2})^1)$.

a Band(C): $\pi 1/2[431]$ from $\pi(g_{7/2}$ and/or $d_{5/2})$.

Adopted Levels, Gammas (continued)

γ(^{115}In)

E_i(level)	J_i^π	E_γ [†]	I_γ [#]	E_f	J_f^π	Mult.[‡]	δ	α[@]	Comments
336.244	1/2⁻	336.241 *25*	100	0.0	9/2⁺	M4		1.081	α(K)=0.856 *12*; α(L)=0.181 *3*; α(M)=0.0369 *6*; α(N+..)=0.00704 *10* α(N)=0.00664 *10*; α(O)=0.000392 *6* B(M4)(W.u.)=8.27 *14* Mult.: from ^{115}In IT decay.
597.144	3/2⁻	260.896 *3*	100	336.244	1/2⁻	M1+E2	−0.09 *6*	0.0376	α(K)=0.0326 *5*; α(L)=0.00404 *8*; α(M)=0.000783 *14*; α(N+..)=0.000154 *3* α(N)=0.0001434 *25*; α(O)=1.065×10^{-5} *16* B(M1)(W.u.)≥0.0047
828.588	3/2⁺	231.443 *3*	9.22 *12*	597.144	3/2⁻	E1		0.01639	α(K)=0.01427 *20*; α(L)=0.001726 *25*; α(M)=0.000333 *5*; α(N+..)=6.46×10^{-5} *9* α(N)=6.04×10^{-5} *9*; α(O)=4.22×10^{-6} *6* B(E1)(W.u.)=3.78×10^{-7} *6*
		492.351 *4*	100 *2*	336.244	1/2⁻	E1			B(E1)(W.u.)=3.4×10^{-7} *1*
864.139	1/2⁺	35.57 *6*	1.534 *11*	828.588	3/2⁺	M1+E2	−0.173 *16*	11.8 *4*	α(K)=9.04 *15*; α(L)=2.20 *21*; α(M)=0.44 *5*; α(N+..)=0.080 *7* α(N)=0.077 *7*; α(O)=0.00357 *13* B(E2)(W.u.)=121 *23*; B(M1)(W.u.)=0.0066 *5*
		266.985 *10*	0.335 *11*	597.144	3/2⁻	E1		0.01112	α(K)=0.00968 *14*; α(L)=0.001166 *17*; α(M)=0.000225 *4*; α(N+..)=4.38×10^{-5} *7* α(N)=4.09×10^{-5} *6*; α(O)=2.88×10^{-6} *4* B(E1)(W.u.)=4.5×10^{-8} *7*
		527.901 *7*	100 *2*	336.244	1/2⁻	E1			B(E1)(W.u.)=1.7×10^{-6} *2*
933.780	7/2⁺	105.200 *25*	0.221 *9*	828.588	3/2⁺	E2		1.290	α(K)=0.965 *14*; α(L)=0.263 *4*; α(M)=0.0529 *8*; α(N+..)=0.00943 *14* α(N)=0.00909 *13*; α(O)=0.000345 *5* B(E2)(W.u.)=4.8×10^{1} *4*
		933.808 *34*	100 *2*	0.0	9/2⁺	M1(+E2)	+0.02 *5*		B(M1)(W.u.)=4.7×10^{-4} *4*
941.424	5/2⁺	344.6 *1*	11.4 *7*	597.144	3/2⁻	E1			B(E1)(W.u.)=51 *5*
		941.420 *11*	100	0.0	9/2⁺	E2			B(E2)(W.u.)=1.32 *12*
1041.44	5/2⁻	444.3 *10*	14	597.144	3/2⁻				
		705.18 *25*	100	336.244	1/2⁻				
1078.16	5/2⁺	136.3	1.2 *2*	941.424	5/2⁺	[M1]		0.22	B(M1)(W.u.)=0.10 *2*
		480.5	18.7 *3*	597.144	3/2⁻	E1			B(E1)(W.u.)=4.6×10^{-4} *3*
		1078.2 *5*	100 *3*	0.0	9/2⁺	E2			B(E2)(W.u.)=1.11×10^{1} *6*
1132.576	11/2⁺	1132.573 *11*	100	0.0	9/2⁺	M1+E2	+0.51 *4*		B(E2)(W.u.)=29 *4*; B(M1)(W.u.)=0.185 *11*
1192.491	(3/2)	252.0 *10*	1.5 *11*	941.424	5/2⁺				
		328.38 *10*	54 *8*	864.139	1/2⁺				
		363.95 *10*	100 *10*	828.588	3/2⁺				
		595.375 *24*	28 *3*	597.144	3/2⁻				
		856.245 *13*	36.1 *16*	336.244	1/2⁻				

$^{115}_{49}In_{66}$-5

Adopted Levels, Gammas (continued)

γ(^{115}In) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	Mult.[‡]	δ	α[@]	Comments
1287.41	1/2,3/2$^-$,5/2$^-$	690.23 *4*	100 *10*	597.144	3/2$^-$				
		951.19 *6*	46 *5*	336.244	1/2$^-$				
1290.592	13/2$^+$	158.027 *20*	1.91 *2*	1132.576	11/2$^+$	M1+E2	+0.02 *1*	0.144	B(E2)(W.u.)=3.3 *+42−29*; B(M1)(W.u.)=0.27 *3*
		1290.585 *11*	100 *2*	0.0	9/2$^+$	E2			B(E2)(W.u.)=11.1 *12*
1347.5	(5/2$^-$)	518.9 *10*	100	828.588	3/2$^+$				
		750.3 *10*	56	597.144	3/2$^-$				
1418.249	(11/2$^+$)	476.67 *20*	0.034 *7*	941.424	5/2$^+$				
		484.471 *15*	100 *6*	933.780	7/2$^+$	M1+E2	+4.0 *2*		Mult.: (E2) from ΔJ^π.
		1418.243 *11*	0.63 *3*	0.0	9/2$^+$				
1448.787	9/2$^+$	316.201 *17*	15.5 *5*	1132.576	11/2$^+$	M1		0.023	Mult.: δ=0.00 *4*.
		370.61 *7*	0.047 *24*	1078.16	5/2$^+$				
		507.36 *6*	1.53 *12*	941.424	5/2$^+$				
		515.05 *7*	0.59 *24*	933.780	7/2$^+$				
		1448.776 *6*	100 *6*	0.0	9/2$^+$	M1+E2	≈−8		B(E2)(W.u.)≈4.5; B(M1)(W.u.)≈0.00019
1463.5	7/2$^+$	385.8 *10*	6.2 *5*	1078.16	5/2$^+$	M1+E2	≈−0.05	0.014	B(E2)(W.u.)≈39; B(M1)(W.u.)≈3.0
		1463.3 *7*	100	0.0	9/2$^+$	M1+E2	−0.31 *7*		B(E2)(W.u.)=1.7 *8*; B(M1)(W.u.)=0.050 *9*
1478.49		544.70 *20*	100 *15*	933.780	7/2$^+$				
		1478.5 *3*	17 *10*	0.0	9/2$^+$				
1486.110	9/2$^+$	353.3 *6*	20.6 *9*	1132.576	11/2$^+$	M1+E2	+0.8 *6*	0.018 *1*	B(E2)(W.u.)=460 *+300−410*; B(M1)(W.u.)=0.11 *7*
		544.70 *20*	4.7 *8*	941.424	5/2$^+$	E2			
		1486.100 *10*	100 *7*	0.0	9/2$^+$	M1+E2	≈−0.95		B(E2)(W.u.)≈2.0; B(M1)(W.u.)≈0.0064
1497.2	(7/2$^+$)	455.7	28	1041.44	5/2$^-$				
		1497.2	100	0.0	9/2$^+$				
1602.3	(7/2$^+$)	1602.3	100	0.0	9/2$^+$				
1608.1	(7/2$^+$)	530.2	45	1078.16	5/2$^+$				
		1607.8	100	0.0	9/2$^+$				
1736.9	(9/2$^+$)	318.8	62	1418.249	(11/2$^+$)				
		604.3	100	1132.576	11/2$^+$				
		1736.9	95	0.0	9/2$^+$				
1801.0	(5/2$^+$)	867.2 *8*	100	933.780	7/2$^+$				
1830.9	(5/2$^+$)	897.1 *8*	100	933.780	7/2$^+$				
1872.4	(9/2$^-$)	830.9	49	1041.44	5/2$^-$				
		938.6	100	933.780	7/2$^+$				
1917.6		627.0	100	1290.592	13/2$^+$				
1971.6	(9/2$^+$)	523.0	33	1448.787	9/2$^+$				
		1971.4	100	0.0	9/2$^+$				
1978.3	7/2$^+$,9/2$^+$	845.7	100	1132.576	11/2$^+$				
		1978.3	12	0.0	9/2$^+$				
1999.1	(7/2$^+$)	550.6	49	1448.787	9/2$^+$				
		957.5	100	1041.44	5/2$^-$				
		1999.0	64	0.0	9/2$^+$				
2057.3	(5/2$^+$)	2057.3	100	0.0	9/2$^+$				

$^{115}_{49}In_{66}$-6

Adopted Levels, Gammas (continued)

γ(^{115}In) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	Mult.[‡]	Comments
2071.0	7/2,9/2$^-$	652.8		1418.249	(11/2$^+$)		
		2071.0 *4*		0.0	9/2$^+$	(E1)	
2107.82	7/2,9/2,11/2$^-$	2107.8 *2*	100	0.0	9/2$^+$	(E1)	
2113.7	(9/2$^+$)	981.1		1132.576	11/2$^+$		
		2113.7		0.0	9/2$^+$		
2119.0	(15/2$^+$)	701		1418.249	(11/2$^+$)		
2136.79	(15/2$^-$)	846.2 *1*	100	1290.592	13/2$^+$	(E1)	
2170.7	(5/2$^+$)	2170.7	100	0.0	9/2$^+$		
2234.0	(5/2$^+$)	2234.0 *3*	100	0.0	9/2$^+$		
2254.2	(17/2$^+$)	964		1290.592	13/2$^+$		
2264.0	(7/2$^+$)	916.5 *3*		1347.5	(5/2$^-$)		
		2264.0 *3*		0.0	9/2$^+$		
2282.99	(17/2$^-$)	146.2 *1*	100	2136.79	(15/2$^-$)	(M1,E2)	
2283.4	(7/2$^+$,9/2$^+$)	797.7	100	1486.110	9/2$^+$		
		2283.0	80	0.0	9/2$^+$		
2309.5	(17/2$^+$)	1019.1 *3*	100	1290.592	13/2$^+$		
2384.6	7/2$^-$,9/2$^-$,11/2$^-$	2384.6 *3*	100	0.0	9/2$^+$	(E1)	
2443.13	7/2,9/2,11/2$^-$	2443.1 *2*	100	0.0	9/2$^+$	(E1)	
2479.7	7/2$^-$,9/2$^-$,11/2$^-$	2479.7 *3*	100	0.0	9/2$^+$	(E1)	
2539.09	(19/2$^-$)	256.1 *1*	100	2282.99	(17/2$^-$)	(M1,E2)	
2540.73	7/2$^-$,9/2$^-$,11/2$^-$	2540.7 *2*	100	0.0	9/2$^+$	(E1)	
2580.0		2580.0 *3*	100	0.0	9/2$^+$		
2646.0		336 *1*		2309.5	(17/2$^+$)		
		392 *1*		2254.2	(17/2$^+$)		
2739.94		2739.9 *2*	100	0.0	9/2$^+$		
2746.7		2746.7 *4*	100	0.0	9/2$^+$		
2827.5		2827.5 *3*	100	0.0	9/2$^+$		
2831.4	(21/2$^-$)	292 *1*	100	2539.09	(19/2$^-$)		
2852.2		2852.2 *4*	100	0.0	9/2$^+$		
2878.4	(21/2$^+$)	(10 *1*)		2878.4	(21/2$^+$)		E_γ: required by $\gamma\gamma$ coin data.
		339 *1*		2540.73	7/2$^-$,9/2$^-$,11/2$^-$		
		569 *1*		2309.5	(17/2$^+$)		
2896.7		2896.7 *4*	100	0.0	9/2$^+$		
2947.0	(19/2$^+$)	828 *1*	100	2119.0	(15/2$^+$)		
2960.4	(23/2$^+$)	82 *1*	100	2878.4	(21/2$^+$)		
2994.4		2994.4 *6*	100	0.0	9/2$^+$		
3037.4	(23/2$^-$)	206 *1*	100	2831.4	(21/2$^-$)		
3042.9		3042.9 *5*	100	0.0	9/2$^+$		
3096.4	(25/2$^+$)	136 *1*	100	2960.4	(23/2$^+$)		
3158.2		3158.2 *7*	100	0.0	9/2$^+$		
3183.4	(25/2$^-$)	146 *1*	100	3037.4	(23/2$^-$)		
3220.7		3220.7 *6*	100	0.0	9/2$^+$		

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Adopted Levels, Gammas (continued)

$\gamma(^{115}In)$ (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π	E_i(level)	J_i^π	E_γ[†]	I_γ[#]	E_f	J_f^π
3231.5		3231.5 *3*	100	0.0	$9/2^+$	3684.7		3684.6 *9*	100	0.0	$9/2^+$
3272.0		3271.9 *3*	100	0.0	$9/2^+$	3701.1		3701.0 *5*	100	0.0	$9/2^+$
3289.0		3288.9 *4*	100	0.0	$9/2^+$	3847.7	$(27/2^-)$	664 *1*	100	3183.4	$(25/2^-)$
3386.6		3386.5 *5*	100	0.0	$9/2^+$	4041.4	$(29/2^+)$	569 *1*	100	3472.4	$(27/2^+)$
3395.1		3395.0 *5*	100	0.0	$9/2^+$	4583.1	$(29/2^-)$	735 *1*		3847.7	$(27/2^-)$
3472.4	$(27/2^+)$	376 *1*	100	3096.4	$(25/2^+)$			1400 *1*		3183.4	$(25/2^-)$

[†] From ^{115}Cd decay if available.

[‡] From ^{115}Cd decay derived from ce data, and from (HI,xnγ) based on DCO ratios.

[#] Relative photon branching from each level.

[@] 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.

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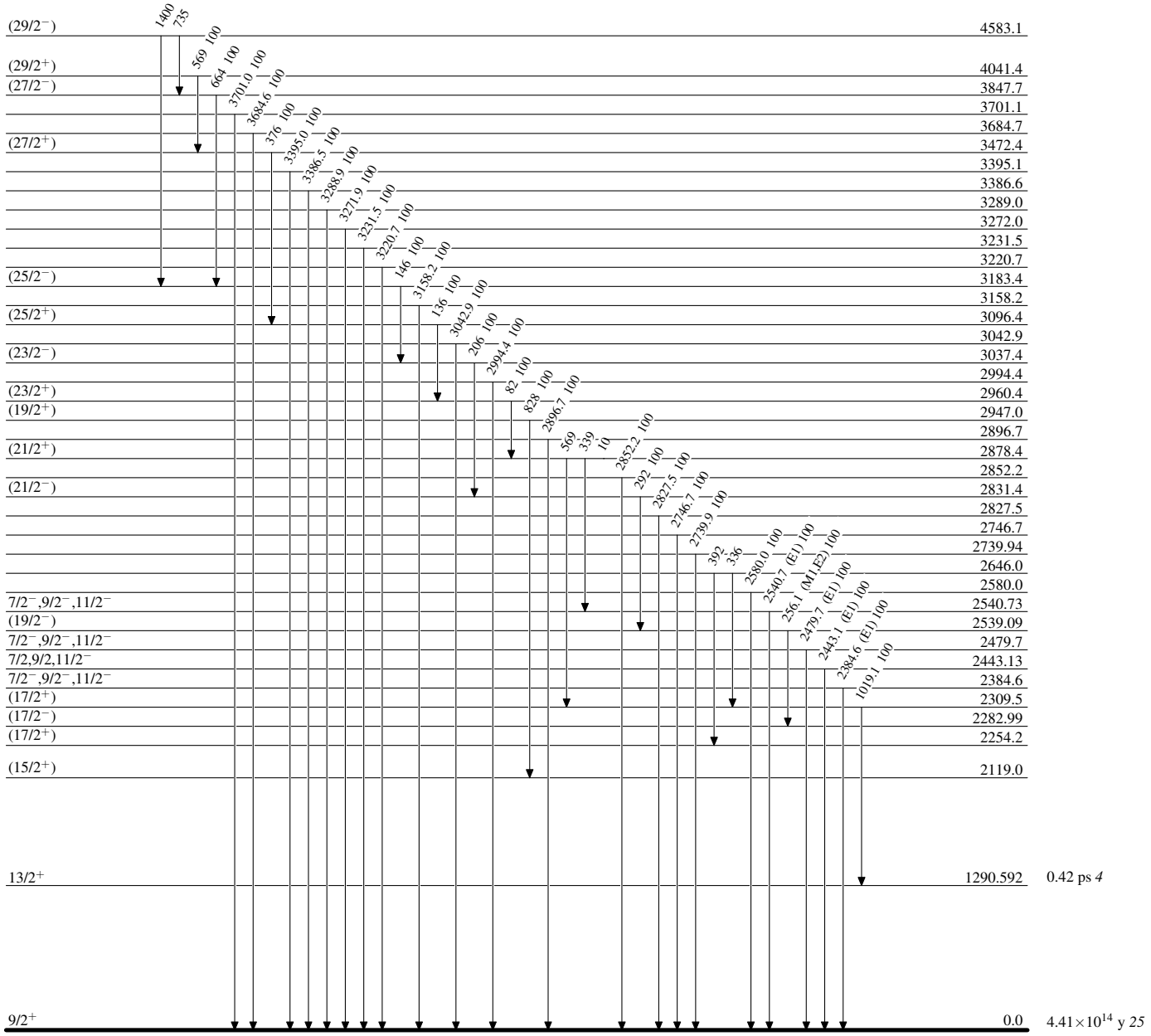
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

– – – – – – ► γ Decay (Uncertain)

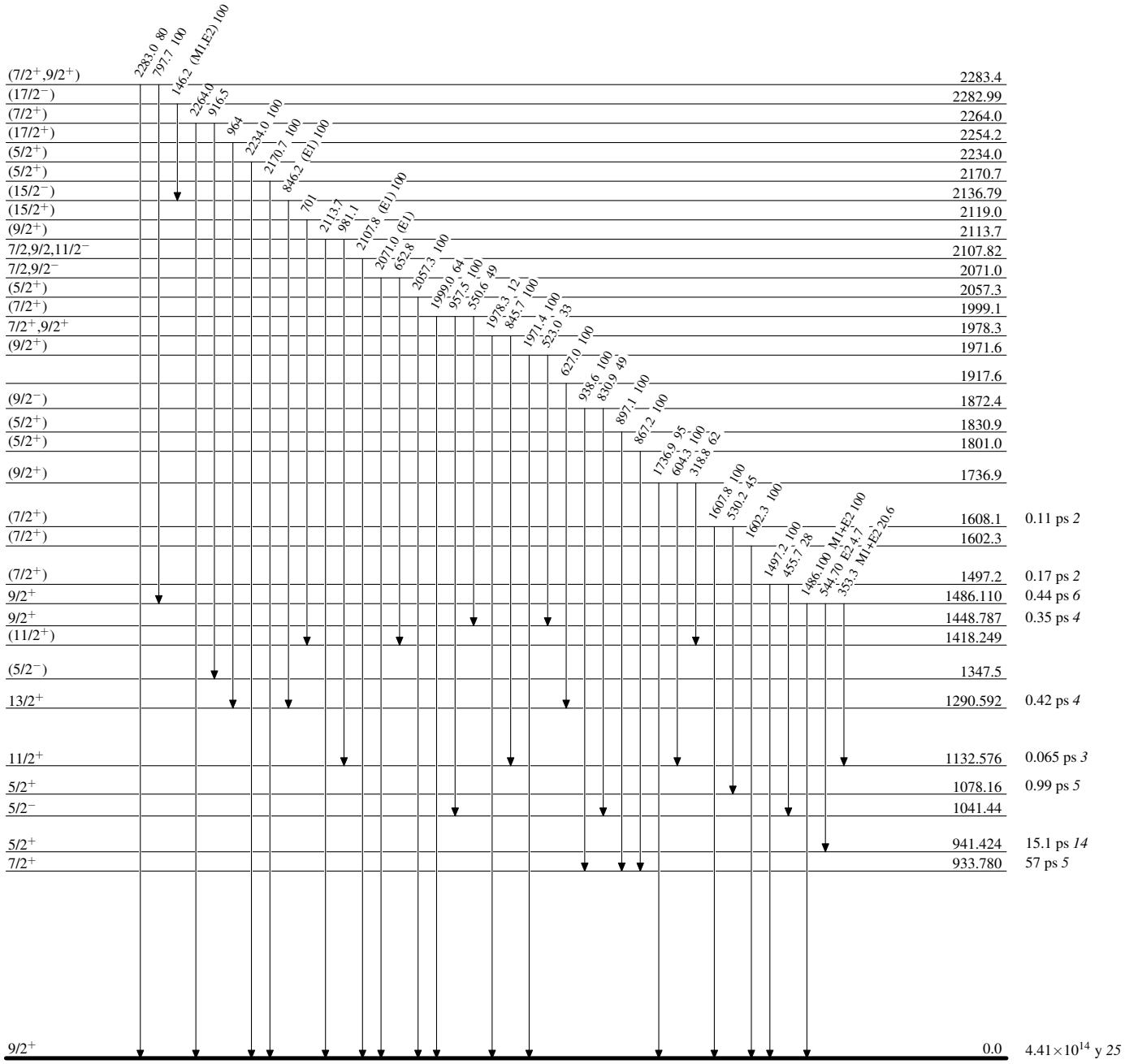


$^{115}_{49}In_{66}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

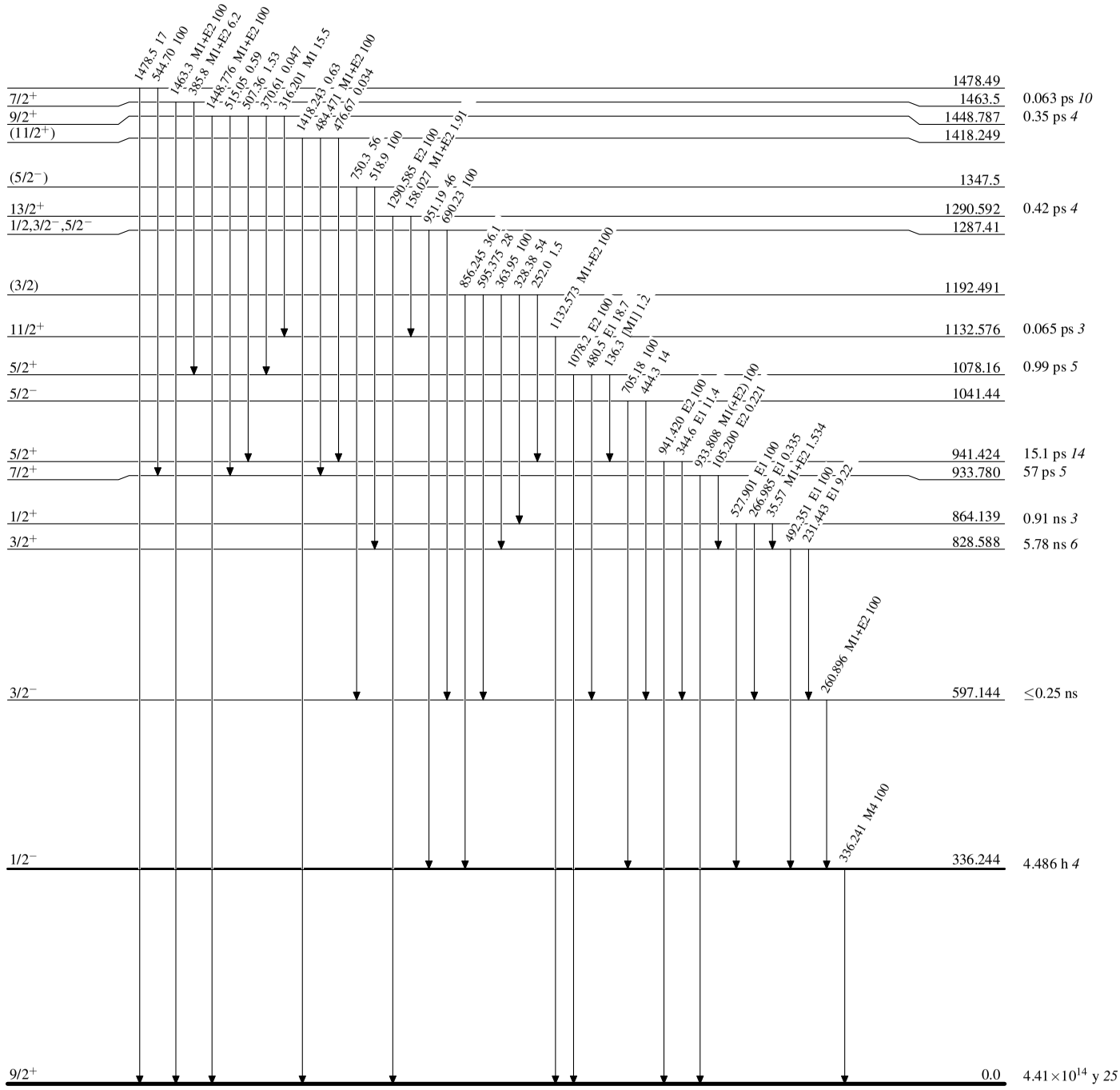


$^{115}_{49}In_{66}$

Adopted Levels, Gammas

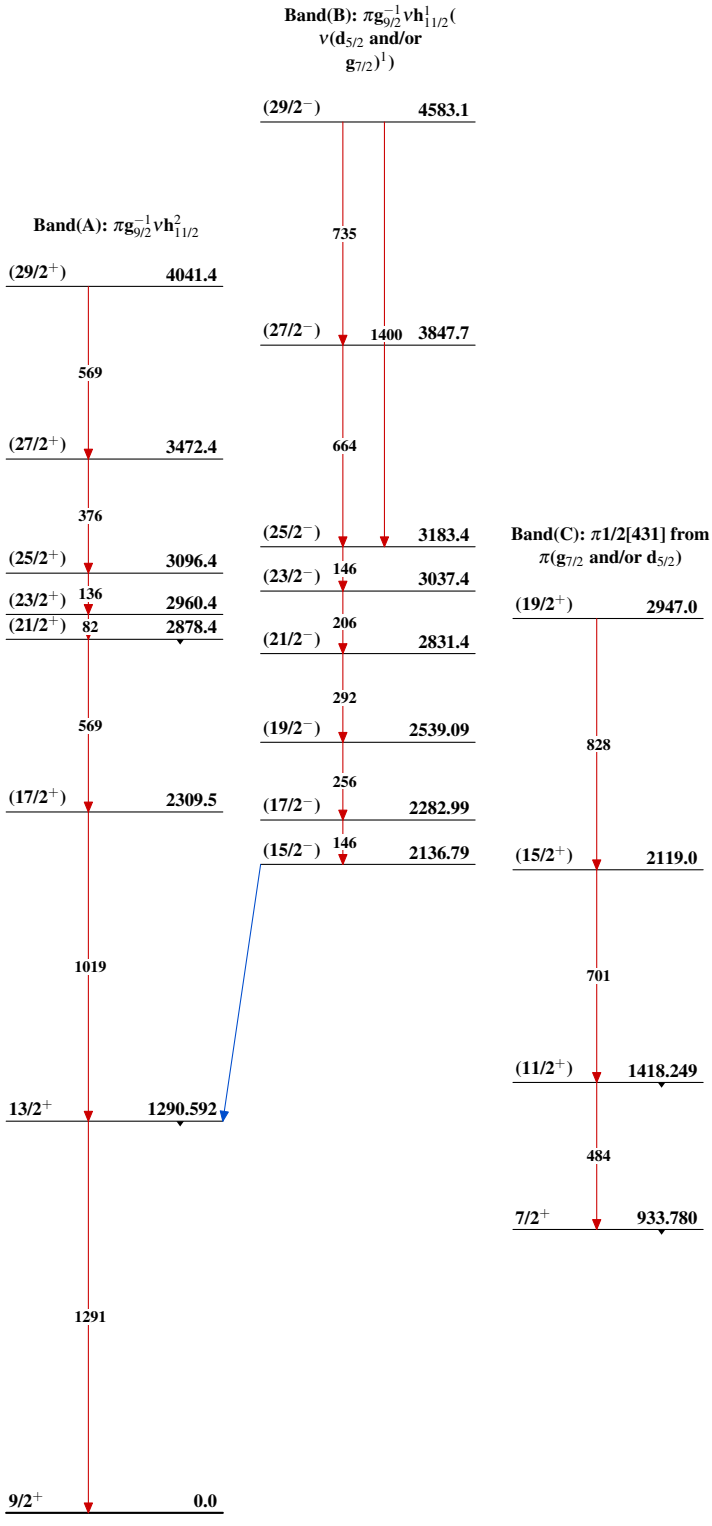
Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{115}_{49}In_{66}$

Adopted Levels, Gammas



$^{115}_{49}In_{66}$