Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 174, 1 (2021)	15-Apr-2021

Q(β^-)=4386 *20*; S(n)=7930 *50*; S(p)=10106 *20*; Q(α)=−7208 *25* 2021Wa16
S(2n)=13740 *30*, S(2p)=23604 *23* (2021Wa16).
Additional information 1.

^{123}In Levels

Cross Reference (XREF) Flags

A	^{123}Cd β^- decay (2.10 s)	D	^{124}Sn(d,^{3}He)
B	^{123}Cd β^- decay (1.80 s)	E	^{124}Sn(t,α)
C	^{123}In IT decay (1.4 μs)	F	^{232}Th(^{6}Li,Fγ)

E(level)†	J$^\pi$	T$_{1/2}$	XREF	Comments
0.0	9/2$^+$	6.15 s *27*	ABCDEF	%β^-=100 μ=+5.491 *7* (1987Eb02,2014StZZ) Q=+0.720 *9* (1987Eb02,2016St14) Configuration=(π 1g$_{9/2}$)$^{-1}$ J$^\pi$: L(d,^{3}He)=L(t,α)=4 from 0$^+$; spin=9/2 from collinear laser spectroscopy (1987Eb02). T$_{1/2}$: unweighted average of 5.98 s *6* (1974Gr29), 6.68 s *20* (1986Go10), and 5.8 s *2* (2011Hi15). μ,Q: from collinear fast beam laser spectroscopy, relative to ^{115}In (1987Eb02). Quoted value of Q is from the original Q=+0.757 *9* relative to Q(^{115}In)=0.81 used in 1987Eb02, scaled using the adopted Q(^{115}In)=0.770 *8* (2008Py02). See also 2014StZZ and 2016St14 compilations. Nuclear rms charge radius=4.6594 fm *56* (2013An02).
327.21 *4*	1/2$^-$	47.4 s *8*	AB DE	%β^-=100 μ=−0.400 *4* (1987Eb02,2014StZZ) Configuration=(π 2p$_{1/2}$)$^{-1}$ Additional information 2. J$^\pi$: L(d,^{3}He)=L(t,α)=1 from 0$^+$; spin=1/2 from collinear laser spectroscopy (1987Eb02). T$_{1/2}$: weighted average of 47.8 s *5* (1974Gr29), 45.9 s *10* (1986Go10) using β counting. Other: 36 s *3* (1960Yu01) seems discrepant. μ: from collinear fast beam laser spectroscopy, relative to ^{115}In (1987Eb02). See also 2014StZZ compilation.
698.52 *5*	(3/2)$^-$		AB DE	Configuration=(π 2p$_{3/2}$)$^{-1}$ XREF: D(660)E(660). J$^\pi$: L(d,^{3}He)=L(t,α)=1 from 0$^+$; spin=3/2 from systematics of neighboring odd-mass In isotopes; 371.3γ M1 to 1/2$^-$.
1027.542 *24*	(11/2$^+$)		BCD F	J$^\pi$: 1027.5γ to 9/2$^+$; possible β-feeding (log *ft*=6.2) from 11/2$^{(-)}$ parent; 11/2$^+$ is favored from systematics of neighboring odd-mass In isotopes.
1052.294 *22*	(5/2$^+$)		AB	J$^\pi$: 353.6γ to (3/2)$^-$, 1052.3γ to 9/2$^+$; possible allowed β-feeding (log *ft*=5.5) from 3/2$^{(+)}$.
1137.55 *5*	(3/2$^-$,5/2$^-$)		AB D	XREF: D(1100). J$^\pi$: 438.7γ to (3/2)$^-$, 810.3γ to 1/2$^-$, 883.0γ from (7/2$^-$); possible β-feeding (log *ft*=6.0) from 3/2$^{(+)}$.
1165.855 *23*	(13/2$^+$)		BC F	J$^\pi$: 1165.9γ to 9/2$^+$; possible β-feeding (log *ft*=6.2) from 11/2$^{(-)}$; 13/2$^+$ is favored from systematics of neighboring odd-mass In isotopes.
1473.79 *3*			B	
1512.11 *3*	7/2$^+$,9/2$^+$		AB D	XREF: D(1500). J$^\pi$: L(d,^{3}He)=4 from 0$^+$.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{123}In Levels (continued)

E(level)[†]	Jπ	$T_{1/2}$	XREF	Comments
1566.24 *4*	(9/2$^+$)		AB D	XREF: D(1550). Jπ: 1566.1γ to 9/2$^+$, 454.3γ from (7/2$^-$), 827.2γ from (5/2$^+$); possible β-feeding (log *ft*=6.4) from 11/2$^{(-)}$.
1615.72 *7*	(1/2,3/2,5/2$^-$)		A	Jπ: 1288.4γ to 1/2$^-$.
1926.49 *6*	(1/2,3/2,5/2$^-$)		A	Jπ: 1599.2γ to 1/2$^-$.
2020.64 *3*	(7/2$^-$)		AB	Jπ: 2020.7γ to 9/2$^+$, 334.0γ from (11/2$^-$), 480.3γ from (9/2$^-$,11/2$^-$), possible β-feeding from 3/2$^{(+)}$ suggest (7/2$^-$). But log *ft*=6.2 from 3/2$^{(+)}$ would suggest (5/2$^+$), which cannot be completely ruled out. It could be that the β-feeding to this level is overestimated probably due to unobserved or unplaced γ feedings to this level.
2029.91 *7*	(1/2$^+$,3/2$^+$)		A	Jπ: 1702.4γ to 1/2$^-$; possible allowed β-feeding (log *ft*=5.5) from 3/2$^{(+)}$.
2046.55 *17*	(13/2$^-$)		C F	Jπ: proposed in ^{123}In IT decay based on γ-decay pattern.
2078.1 *6*	(17/2$^-$)	1.4 μs *2*	C F	%IT=100 Jπ: 31.5γ possible (E2) to (13/2$^-$). $T_{1/2}$: from 880.7γ(t)+1166.0γ(t) (2004Sc42) in ^{123}In IT decay.
2078.1+x	(21/2$^-$)	≥100 μs	F	%IT=100 Additional information 3. E(level): this isomer is proposed by 2010Re01 based on their observation of delayed γ transitions seen in the decay of the 1.4−μs isomer in 2004Sc42, which however is less likely originated from the relatively short-lived 1.4−μs isomer due to the particle-γ correlation time from 5 to 175 μs in their setup, but is likely from a longer-lived isomer above the 1.4−μs isomer to further delay the decays as observed. Jπ,$T_{1/2}$: from 2010Re01 in (^{6}Li,Fγ), with the half-life limit suggested from intensity in time spectra. This isomer is suggested to arise from ν($h_{11/2}$⊗$d_{3/2}$)7$^-$ and ν($h_{11/2}$⊗$s_{1/2}$)5$^-$ neutron core excitation coupling with the valence proton (2010Re01).
2101.01 *4*	(11/2$^-$,13/2$^-$)		B	Jπ: 77.6γ M1 from (11/2$^-$), 935.1γ to (13/2$^+$).
2102.79 *5*	(9/2$^-$,11/2$^-$)		B	Jπ: 2102.8γ to 9/2$^+$; possible allowed β-feeding (log *ft*=5.4) from 11/2$^{(-)}$.
2136.63 *5*	(1/2$^+$,3/2$^+$)		AB	Jπ: 1809.5γ to 1/2$^-$; possible allowed β-feeding (log *ft*=5.0) from 3/2$^{(+)}$.
2158.59 *7*	(1/2$^+$,3/2$^+$,5/2$^+$)		A	Jπ: 1460.1γ (3/2)$^-$; possible allowed β-feeding (log *ft*=5.6) from 3/2$^{(+)}$.
2178.52 *6*	(11/2$^-$)		B	Jπ: 2178.98γ 9/2$^+$, 1012.9γ to (13/2$^+$); possible allowed β-feeding (log *ft*=5.1) from 11/2$^{(-)}$.
2185.7 *4*			B	
2268.05 *3*	(11/2$^-$)		B	Jπ: 2268.1γ to 9/2$^+$, 1102.2γ to (13/2$^+$); possible allowed β-feeding (log *ft*=5.0) from 11/2$^{(-)}$.
2309.74 *5*	(11/2$^-$,13/2$^-$)		B	Jπ: 1143.8γ to (13/2$^+$), 1282.2γ to (11/2$^+$); possible allowed β-feeding (log *ft*=5.3) from 11/2$^{(-)}$.
2354.69 *4*	(11/2$^-$)		B	Jπ: 2354.7γ to 9/2$^+$, 1188.8γ to (13/2$^+$); possible allowed β-feeding (log *ft*=5.2) from 11/2$^{(-)}$.
2377.32 *9*	(1/2$^+$,3/2$^+$,5/2$^+$)		A	Jπ: possible allowed β-feeding (log *ft*=5.4) from 3/2$^{(+)}$.
2393.31 *5*	(5/2$^+$)		AB	Jπ: 2393.5γ to 9/2$^+$, 1694.8γ to (3/2)$^-$, 256.7γ to (1/2$^+$,3/2$^+$); possible allowed β-feeding (log *ft*=4.7) from 3/2$^{(+)}$.
2429.49 *7*	(1/2$^+$,3/2$^+$,5/2$^+$)		A	Jπ: possible allowed β-feeding (log *ft*=5.3) from 3/2$^{(+)}$.
2461.49 *6*	(9/2$^-$,11/2$^-$)		B	Jπ: 2461.5γ to 9/2$^+$; possible allowed β-feeding (log *ft*=5.0) from 11/2$^{(-)}$.
2500.91 *4*	(9/2$^-$,11/2$^-$)		B	Jπ: 2500.4γ to 9/2$^+$; possible allowed β-feeding (log *ft*=4.8) from 11/2$^{(-)}$.
2529.26 *6*	(1/2$^+$,3/2$^+$)		A	Jπ: 2202.1γ 1/2$^-$; possible allowed β-feeding (log *ft*=5.0) from 3/2$^{(+)}$.

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

^{123}In Levels (continued)

E(level)[†]	J^{π}	XREF	Comments
2529.47 *3*	$(11/2^-,13/2^-)$	B	J^{π}: 1363.6γ to $(13/2^+)$; possible allowed β-feeding (log *ft*=4.8) from $11/2^{(-)}$.
2541.35 *6*	$(1/2^+,3/2^+)$	A	J^{π}: 2214.3γ to $1/2^-$; possible allowed β-feeding (log *ft*=4.8) from $3/2^{(+)}$.
2602.10 *8*	$(9/2^-,11/2^-)$	B	J^{π}: 2601.98γ to $9/2^+$; possible allowed β-feeding (log *ft*=4.8) from $11/2^{(-)}$.
2617.86 *6*	$(11/2^-,13/2^-)$	B	J^{π}: 1452.0γ to $(13/2^+)$; possible allowed β-feeding (log *ft*=5.7) from $11/2^{(-)}$.
2723.59 *6*	$(11/2^-,13/2^-)$	B	J^{π}: 1557.7γ to $(13/2^+)$; possible allowed β-feeding (log *ft*=5.6) from $11/2^{(-)}$.

[†] From a least-squares fit to γ-ray energies if levels are connected by γ rays, otherwise from transfer reactions.

Adopted Levels, Gammas (continued)

γ(^{123}In)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[@]	α[†]	Comments
698.52	(3/2)$^-$	371.32 *3*	100	327.21	1/2$^-$	M1	0.01517	α(K)=0.01319 *19*; α(L)=0.001608 *23*; α(M)=0.000311 *5* α(N)=5.71×10^{-5} *8*; α(O)=4.27×10^{-6} *6*
1027.542	(11/2$^+$)	1027.50 *3*	100	0.0	9/2$^+$			E_γ: other: 1027.4 *3* from ^{123}In IT decay.
1052.294	(5/2$^+$)	353.63 *7*	14.5 *16*	698.52	(3/2)$^-$			I_γ: weighted average of 14.3 *16* from ^{123}Cd β$^-$ decay (2.10 s) and 17 *7* from ^{123}Cd β$^-$ decay (1.80 s).
		1052.28 *3*	100 *6*	0.0	9/2$^+$			I_γ: from ^{123}Cd β$^-$ decay (2.10 s). Other: 100 *10* from ^{123}Cd β$^-$ decay (1.80 s).
1137.55	(3/2$^-$,5/2$^-$)	438.68[#] *5*	36 *4*	698.52	(3/2)$^-$			I_γ: weighted average of 37 *4* from ^{123}Cd β$^-$ decay (2.10 s) and 34 *4* from ^{123}Cd β$^-$ decay (1.80 s).
		810.29 *3*	100 *7*	327.21	1/2$^-$			I_γ: from ^{123}Cd β$^-$ decay (1.80 s). Other: 100 *10* from ^{123}Cd β$^-$ decay (2.10 s).
1165.855	(13/2$^+$)	138.38 *10*	3.5 *6*	1027.542	(11/2$^+$)			
		1165.86 *3*	100 *6*	0.0	9/2$^+$	[E2]	0.000872 *13*	α=0.000872 *13*; α(K)=0.000757 *11*; α(L)=9.09×10^{-5} *13*; α(M)=1.756×10^{-5} *25* α(N)=3.21×10^{-6} *5*; α(O)=2.37×10^{-7} *4*; α(IPF)=3.48×10^{-6} *5* E_γ: other: 1166.0 *3* from ^{123}In IT decay.
1473.79		1473.77[&] *3*	100	0.0	9/2$^+$			
1512.11	7/2$^+$,9/2$^+$	1512.09 *3*	100	0.0	9/2$^+$			
1566.24	(9/2$^+$)	1566.09 *5*	100	0.0	9/2$^+$			
1615.72	(1/2,3/2,5/2$^-$)	917.16 *6*	100 *11*	698.52	(3/2)$^-$			
		1288.35 *20*	8.6 *16*	327.21	1/2$^-$			
1926.49	(1/2,3/2,5/2$^-$)	1227.50[#] *5*	100 *10*	698.52	(3/2)$^-$			
		1599.23 *12*	47 *8*	327.21	1/2$^-$			
2020.64	(7/2$^-$)	454.25 *5*	46 *11*	1566.24	(9/2$^+$)			I_γ: unweighted average of 35 *4* from ^{123}Cd β$^-$ decay (2.10 s) and 56 *6* from ^{123}Cd β$^-$ decay (1.80 s).
		883.0 *9*	43.4 *8*	1137.55	(3/2$^-$,5/2$^-$)			I_γ: weighted average of 35 *9* from ^{123}Cd β$^-$ decay (2.10 s) and 43.5 *8* from ^{123}Cd β$^-$ decay (1.80 s).
		2020.71 *4*	100 *7*	0.0	9/2$^+$			I_γ: from ^{123}Cd β$^-$ decay (2.10 s). Other: 100 *8* from ^{123}Cd β$^-$ decay (1.80 s).
2029.91	(1/2$^+$,3/2$^+$)	1331.44 *5*	100 *9*	698.52	(3/2)$^-$			
		1702.37[#] *7*	33 *5*	327.21	1/2$^-$			
2046.55	(13/2$^-$)	880.7 *2*	100	1165.855	(13/2$^+$)			E_γ,I_γ: from ^{123}In IT decay.
		1019.0 *3*	37	1027.542	(11/2$^+$)			E_γ,I_γ: from ^{123}In IT decay.
2078.1	(17/2$^-$)	31.5 *5*	100	2046.55	(13/2$^-$)	(E2)	105 *7*	α(K)=19.5 *3*; α(L)=69 *6*; α(M)=14.1 *12* α(N)=2.34 *20*; α(O)=0.042 *4* B(E2)(W.u.)=3.4 *+12−8* E_γ: from energy of conversion electron, observed in delayed ce spectrum in ^{123}In IT decay. Mult.: suggested by the absence of crossover transition between 2078 level and 1166 level in ^{123}In IT decay.

$^{123}_{49}In_{74}$-4

Adopted Levels, Gammas (continued)

γ(^{123}In) (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Mult.[@]	α[†]	Comments
2078.1+x	(21/2$^-$)	x[a]		2078.1	(17/2$^-$)			E_γ: it is stated in 2010Re01 in (^{6}Li,Fγ) that by assuming a single transition between the two isomeric states, it is not possible to assign this transition in their experiment and mass separation or isomer decay tagging would be needed to determine the origin with confidence.
2101.01	(11/2$^-$,13/2$^-$)	935.10 *3*	100	1165.855	(13/2$^+$)			
2102.79	(9/2$^-$,11/2$^-$)	2102.81 *5*	100	0.0	9/2$^+$			
2136.63	(1/2$^+$,3/2$^+$)	999.12 *15*	17 *4*	1137.55	(3/2$^-$,5/2$^-$)			I_γ: weighted average of 17 *4* from ^{123}Cd β^- decay (2.10 s) and 18 *9* from ^{123}Cd β^- decay (1.80 s).
		1084.32 *3*	61 *5*	1052.294	(5/2$^+$)			I_γ: weighted average of 60 *5* from ^{123}Cd β^- decay (2.10 s) and 64 *9* from ^{123}Cd β^- decay (1.80 s).
		1438.13 *5*	100 *8*	698.52	(3/2)$^-$			I_γ: from ^{123}Cd β^- decay (2.10 s). Other: 100 *9* from ^{123}Cd β^- decay (1.80 s).
		1809.50 *9*	21 *2*	327.21	1/2$^-$			I_γ: weighted average of 21 *2* from ^{123}Cd β^- decay (2.10 s) and 27 *9* from ^{123}Cd β^- decay (1.80 s).
2158.59	(1/2$^+$,3/2$^+$,5/2$^+$)	1460.07 *5*	100	698.52	(3/2)$^-$			
2178.52	(11/2$^-$)	75.81	100 *10*	2102.79	(9/2$^-$,11/2$^-$)	M1	1.124	α(K)=0.972 *14*; α(L)=0.1235 *18*; α(M)=0.0240 *4* α(N)=0.00439 *7*; α(O)=0.000323 *5*
		77.60	65 *7*	2101.01	(11/2$^-$,13/2$^-$)	M1	1.051	α(K)=0.909 *13*; α(L)=0.1154 *17*; α(M)=0.0224 *4* α(N)=0.00410 *6*; α(O)=0.000302 *5*
		1012.91 *10*	81 *7*	1165.855	(13/2$^+$)			
		1150.81 *6*	17 *5*	1027.542	(11/2$^+$)			
		2178.98 *15*	12 *2*	0.0	9/2$^+$			
2185.7		84.7 *4*	100	2101.01	(11/2$^-$,13/2$^-$)			
2268.05	(11/2$^-$)	1102.20 *3*	38 *3*	1165.855	(13/2$^+$)			
		1240.48 *3*	100 *6*	1027.542	(11/2$^+$)			
		2268.09 *10*	6.7 *8*	0.0	9/2$^+$			
2309.74	(11/2$^-$,13/2$^-$)	207.12 *10*	41 *8*	2102.79	(9/2$^-$,11/2$^-$)			
		1143.84 *15*	33 *7*	1165.855	(13/2$^+$)			
		1282.19 *4*	100 *6*	1027.542	(11/2$^+$)			
2354.69	(11/2$^-$)	334.03 *5*	10.7 *11*	2020.64	(7/2$^-$)			
		1188.78 *9*	6.3 *8*	1165.855	(13/2$^+$)			
		2354.74 *6*	100 *6*	0.0	9/2$^+$			
2377.32	(1/2$^+$,3/2$^+$,5/2$^+$)	347.48 *8*	100 *17*	2029.91	(1/2$^+$,3/2$^+$)			
		1324.77 *15*	47 *10*	1052.294	(5/2$^+$)			
2393.31	(5/2$^+$)	256.69 *5*	41 *4*	2136.63	(1/2$^+$,3/2$^+$)			I_γ: weighted average of 39 *6* from ^{123}Cd β^- decay (2.10 s) and 42 *4* from ^{123}Cd β^- decay (1.80 s).
		363.7 *6*	3.5 *3*	2029.91	(1/2$^+$,3/2$^+$)			
		827.23 *25*	4.0 *18*	1566.24	(9/2$^+$)			I_γ: weighted average of 4.6 *21* from ^{123}Cd β^- decay (2.10 s) and 3.6 *18* from ^{123}Cd β^- decay (1.80 s).
		881.17 *5*	64 *13*	1512.11	7/2$^+$,9/2$^+$			I_γ: weighted average of 62 *13* from ^{123}Cd β^- decay (2.10 s) and 65 *13* from ^{123}Cd β^- decay (1.80 s).

$^{123}_{49}In_{74}$-5

Adopted Levels, Gammas (continued)

γ(^{123}In) (continued)

E_i(level)	J_i^π	E_γ[‡]	I_γ[‡]	E_f	J_f^π	Comments
2393.31	(5/2$^+$)	1255.65 *5*	39.2 *18*	1137.55	(3/2$^-$,5/2$^-$)	I_γ: weighted average of 37 *3* from ^{123}Cd β^- decay (2.10 s) and 40.0 *18* from ^{123}Cd β^- decay (1.80 s).
		1341.06 *5*	47 *4*	1052.294	(5/2$^+$)	I_γ: weighted average of 44 *4* from ^{123}Cd β^- decay (2.10 s) and 49 *4* from ^{123}Cd β^- decay (1.80 s).
		1694.81 *5*	100 *6*	698.52	(3/2)$^-$	I_γ: from ^{123}Cd β^- decay (2.10 s). Other: 100 *7* from ^{123}Cd β^- decay (1.80 s).
		2393.46 *15*	10.0 *3*	0.0	9/2$^+$	I_γ: weighted average of 10.0 *3* from ^{123}Cd β^- decay (2.10 s) and 10.9 *18* from ^{123}Cd β^- decay (1.80 s).
2429.49	(1/2$^+$,3/2$^+$,5/2$^+$)	813.63 *9*	95 *15*	1615.72	(1/2,3/2,5/2$^-$)	
		1377.36 *10*	70 *10*	1052.294	(5/2$^+$)	
		1730.95 *6*	100 *10*	698.52	(3/2)$^-$	
2461.49	(9/2$^-$,11/2$^-$)	107.1 *3*	1.8 *6*	2354.69	(11/2$^-$)	
		987.60 *10*	15 *4*	1473.79		
		2461.50 *7*	100 *6*	0.0	9/2$^+$	
2500.91	(9/2$^-$,11/2$^-$)	480.28 *3*	18.6 *14*	2020.64	(7/2$^-$)	
		988.73 *10*	65 *4*	1512.11	7/2$^+$,9/2$^+$	
		1473.77[&#] *3*	100 *7*	1027.542	(11/2$^+$)	
		2500.44[#] *9*	8.6 *8*	0.0	9/2$^+$	
2529.26	(1/2$^+$,3/2$^+$)	602.73 *3*	20.0 *3*	1926.49	(1/2,3/2,5/2$^-$)	
		1830.78 *5*	100 *7*	698.52	(3/2)$^-$	
		2202.14 *7*	52 *5*	327.21	1/2$^-$	
2529.47	(11/2$^-$,13/2$^-$)	174.79 *6*	30 *4*	2354.69	(11/2$^-$)	
		261.5 *5*	12.7 *14*	2268.05	(11/2$^-$)	
		428.41 *3*	100 *6*	2101.01	(11/2$^-$,13/2$^-$)	
		1363.64 *3*	63 *4*	1165.855	(13/2$^+$)	
		1502.13 *15*	4.2 *7*	1027.542	(11/2$^+$)	
2541.35	(1/2$^+$,3/2$^+$)	512.0 *5*	55.3 *10*	2029.91	(1/2$^+$,3/2$^+$)	
		615.10 *9*	15 *6*	1926.49	(1/2,3/2,5/2$^-$)	
		1403.37 *15*	5.6 *14*	1137.55	(3/2$^-$,5/2$^-$)	
		1488.91 *5*	33 *4*	1052.294	(5/2$^+$)	
		1842.86 *5*	100 *7*	698.52	(3/2)$^-$	
		2214.33 *10*	21 *3*	327.21	1/2$^-$	
2602.10	(9/2$^-$,11/2$^-$)	292.90[#] *10*	3.5 *3*	2309.74	(11/2$^-$,13/2$^-$)	
		2601.98 *8*	100 *6*	0.0	9/2$^+$	
2617.86	(11/2$^-$,13/2$^-$)	515.0 *5*	57 *4*	2102.79	(9/2$^-$,11/2$^-$)	
		1452.00 *5*	100 *9*	1165.855	(13/2$^+$)	
2723.59	(11/2$^-$,13/2$^-$)	193.4 *4*	37 *16*	2529.47	(11/2$^-$,13/2$^-$)	
		1557.74 *5*	100 *8*	1165.855	(13/2$^+$)	

[†] Additional information 4.
[‡] From ^{123}Cd β^- decay (2.10 s) and/or ^{123}Cd β^- decay (1.80 s), unless otherwise noted. Averages are taken for intensities where different values are available in

$^{123}_{49}In_{74}$-6

Adopted Levels, Gammas (continued)

$\gamma(^{123}In)$ (continued)

the two datasets.

[#] Poor fit. Uncertainty are increased to 0.2 keV in the fitting procedure.

[@] From ^{123}Cd β^- decay (1.80 s) based on ce data (1986Ho24), unless otherwise noted.

[&] Multiply placed.

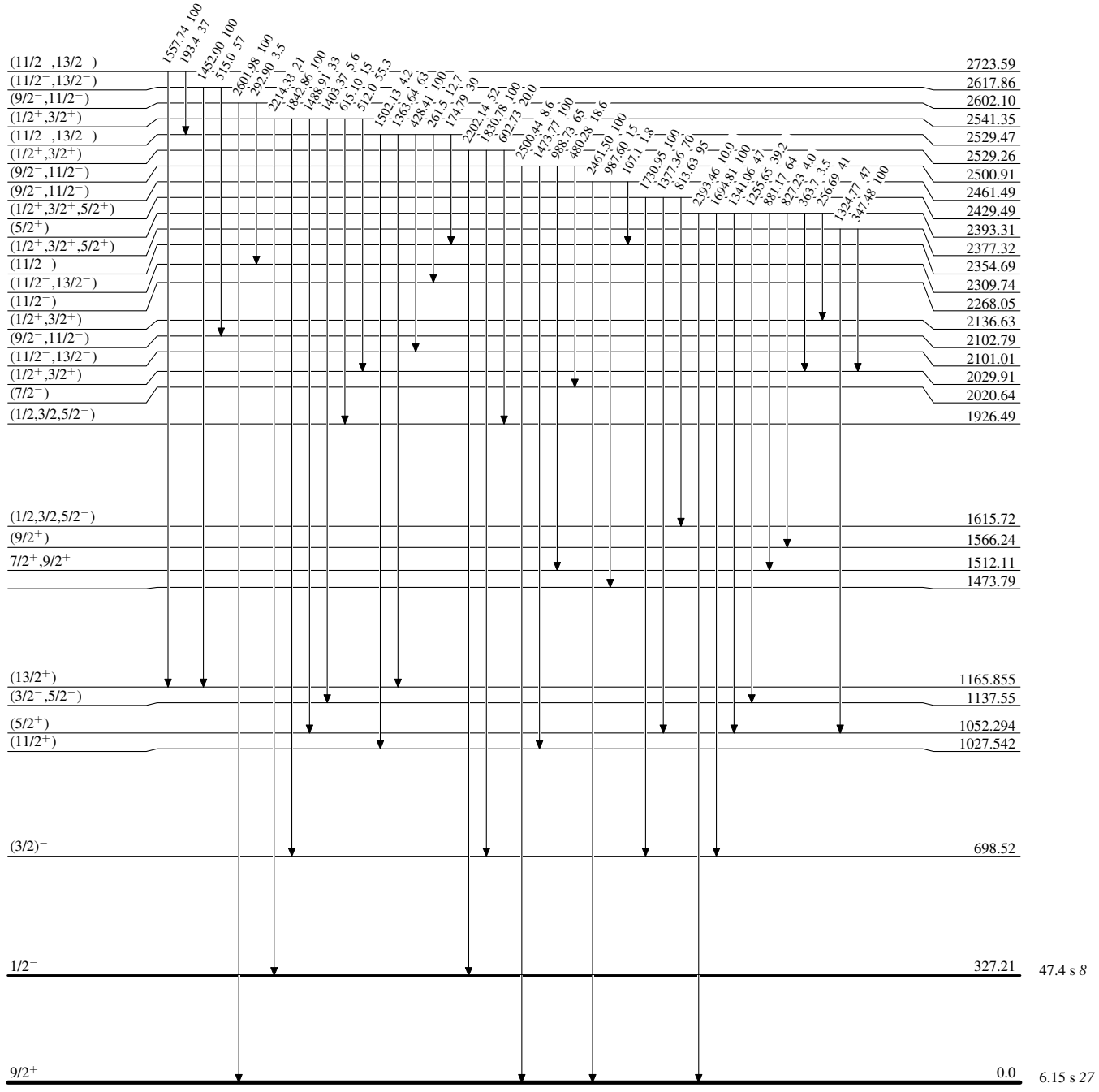
[a] Placement of transition in the level scheme is uncertain.

$^{123}_{49}In_{74}$-7

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level



$^{123}_{49}In_{74}$

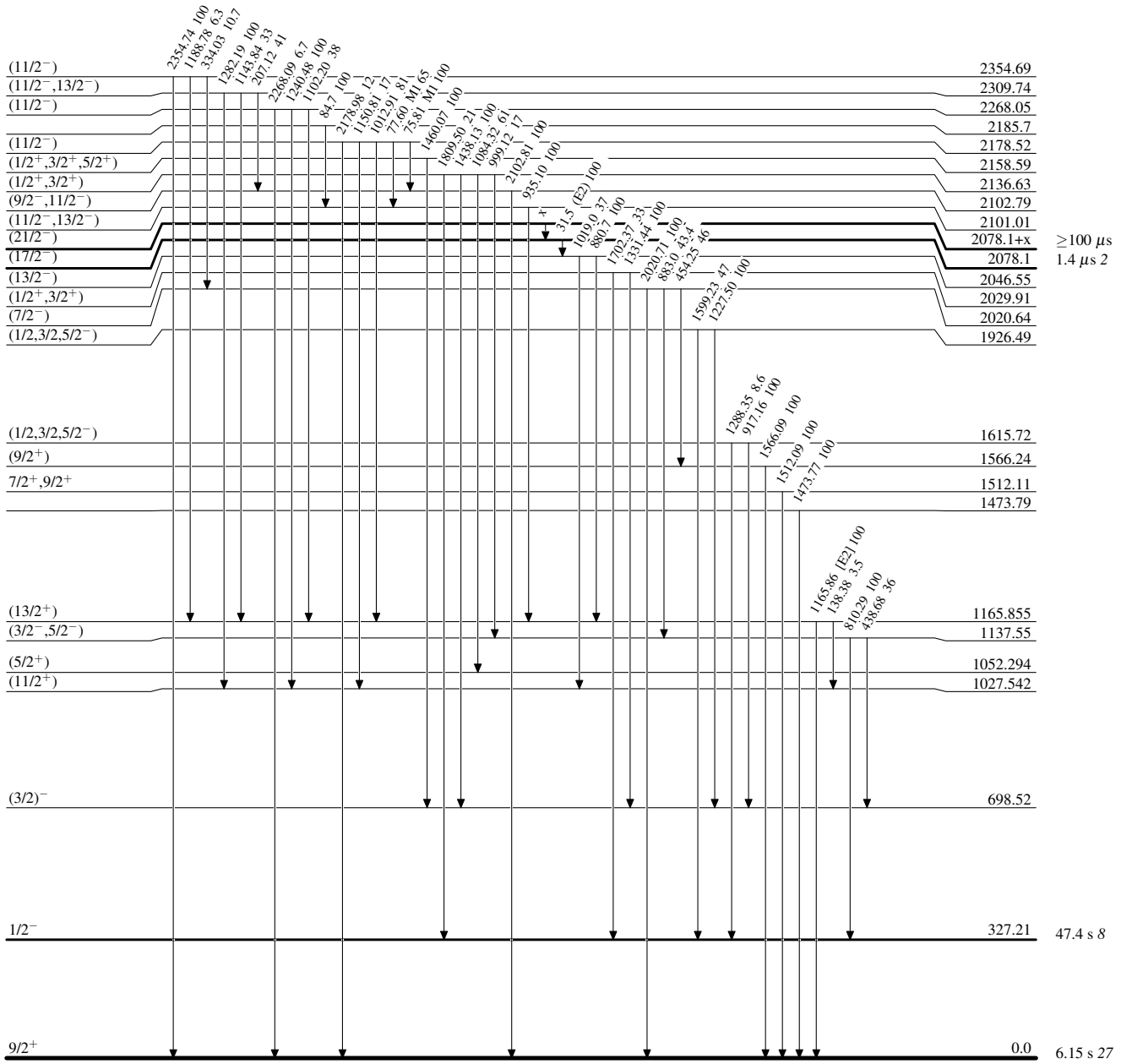
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

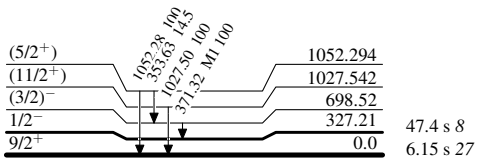


$^{123}_{49}In_{74}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{123}_{49}In_{74}$