Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 113,515 (2012)	1-Jan-2012

Q(β^-)=1988.9 *7*; S(n)=7273.9 *3*; S(p)=6814.1 *9*; Q(α)=−3535.6 *16* 2012Wa38

Note: Current evaluation has used the following Q record 1988.6 6 *7273.8 3* 6813.4 *9* −3538.4 *18* 2011AuZZ.

Most of the levels correspond to p-n multiplets: configuration=(π 1g)$^{-1}$ with n(s1/2, d3/2, g7/2, h11/2) see 1976Va13 and 2002SaZO for comparison with calculated levels, using proton hole coupled to a number of projected neutron quasiparticle wave functions.

About 75 resonances from 113In(n,n),(n,g) are known up to about 2 keV neutron energy (2006MuZX).

^{114}In Levels

Cross Reference (XREF) Flags

A	^{114}In IT decay (49.51 d)	E	^{113}In(d,p)
B	^{114}In IT decay (43.1 ms)	F	^{114}Cd(p,nγ)
C	^{110}Pd(^{7}Li,3nγ)	G	^{115}In(d,t)
D	^{113}In(n,γ) E=th	H	^{113}In(n,γ): primary gammas

E(level)†	J$^\pi$	T$_{1/2}$‡	XREF	Comments
0.0	1$^+$	71.9 s *1*	ABCDEFGH	%β^-=99.50 *15*; %ε+%β^+=0.50 *15* (1956Gr35) μ=+2.817 *11* (1982Nu02,2005St24) Configuration=πg$_{9/2}\otimes\nu$g$_{7/2}$. J$^\pi$: log *ft*=4.5 to 0$^+$ ^{114}Sn. T$_{1/2}$: from 1968Ko25. Others: 1937La05, 1956Br87, 1956Gr35. %β^-: Iβ^+ is from 1956Gr35 and ε/β^+=142 from theory. Note that 1956Gr35 deduce I$\varepsilon\approx$1.9%.
190.2682 *8*	5$^+$	49.51 d *1*	ABCDEFGH	%IT=96.75 *24*; %ε+%β^+=3.25 *24* μ=+4.653 *5* (1987Eb02,2005St24); Q=+0.739 *12* (1987Eb02,2005St24) T$_{1/2}$: from 1972Me01. Others: 1939Ba03, 1940La07, 1949Bo52, 1949Ma38, 1957Wr37, 1959Ca12. J$^\pi$: atomic beam (1969Fu11), E4 γ to 1$^+$. %IT: from Iγ(190γ)=15.56% *15* (1994Co02. Value revised in Priv. Comm. from F. Schima, May 1995), Iγ(725γ)/Iγ(190γ)=0.209 *15* and the requirement that %IT+%(ε+β^+)=100. The Iγ ratio is an unweighted average of 0.150 *20* (1949Bo52), 0.211 *15*, 0.211 *15* (1967Ro22), 0.189, 0.185 (1952Jo22), 0.268, 0.250 (1957Go82). The two sets of values are from separate measurements of Iγ(725γ) and Iγ(558γ), with the assumption of negligible feeding of the 558 level from the ^{114}In g.s. via IT decay. Configuration=πg$_{9/2}\otimes\nu$s$_{1/2}$.
221.057 *3*	4$^+$		DEFGH	Configuration=πg$_{9/2}\otimes\nu$s$_{1/2}$+πg$_{9/2}\otimes\nu$d$_{3/2}$. J$^\pi$: M1 γ to 5$^+$.
287.734 *3*	2$^+$	<69 ps	DEFGH	J$^\pi$: M1 γ to 1$^+$; $\gamma(\theta)$ in (p,nγ). Configuration=πg$_{9/2}\otimes\nu$g$_{7/2}$.
497.156 *3*	5$^+$	0.15 ns *11*	DEFGH	J$^\pi$: M1 γ to 5$^+$, M1 γ to 4$^+$. Configuration=πg$_{9/2}\otimes\nu$d$_{3/2}$.
501.948 *3*	8$^-$	43.1 ms *6*	BCDEF H	%IT=100 Configuration=πg$_{9/2}\otimes\nu$h$_{11/2}$. J$^\pi$: E3 γ to 5$^+$. T$_{1/2}$: weighted average: 43.5 ms *10* (1968Ko25), 43.5 ms *20* (1966MoZZ), 42 ms *2* (1968Al08), 39.4 ms (1967Iv04), 42 ms *5* (1958Du80), 41.8 ms *14* (1960Mo19), 46.5 ms *20* (1966Me02), 42 ms *2* (1959Gl56).
536.297 *3*	7$^-$		CDEFGH	J$^\pi$: L(n)=5 (d,p), M1 γ to 8$^-$. Configuration=πg$_{9/2}\otimes\nu$h$_{11/2}$.
574.422 *3*	6$^-$		CDEFGH	J$^\pi$: L(n)=5 (d,p), M1 γ to 7$^-$.

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Adopted Levels, Gammas (continued)

^{114}In Levels (continued)

E(level)[†]	J$^{\pi}$	T$_{1/2}$[‡]	XREF	Comments
				Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
600.354 *8*	3$^-$		D F	J$^{\pi}$: E1 γ to 2$^+$.
628.032 *3*	3$^+$	<69 ps	D GH	J$^{\pi}$: M1 γ to 2$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}$.
641.74[#] *7*	9$^-$		C	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
641.745 *3*	7$^+$	4.3 ns *4*	DEFGH	J$^{\pi}$: γ's to 5$^+$ and (8$^-$), L(n)=(4)(d,p).
				Configuration=$\pi g_{9/2}\otimes\nu d_{5/2}$.
687.527 *4*	8$^+$		DEFGH	J$^{\pi}$: M1 γ to 7$^+$ and E1 γ to 8$^-$.
				Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}$.
692.934 *4*	2$^-$		D F H	J$^{\pi}$: E1 γ to 1$^+$, E1 γ to 3$^+$.
696.38 *8*	5$^-$	<104 ps	CDEF H	J$^{\pi}$: M1 γ to 6$^-$, E1 γ to 4$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
725.104 *4*	3$^+$		DEF H	J$^{\pi}$: M1,E2 γ to 2$^+$ and M1,E2 γ to 4$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}$.
728.5300 *25*	4$^+$		D FGH	J$^{\pi}$: M1 γ to 5$^+$ and M1 γ to 4$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}+\pi g_{9/2}\otimes\nu s_{1/2}$.
775.336 *3*	4$^+$	<140 ps	DEFGH	Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}+\pi g_{9/2}\otimes\nu d_{3/2}$.
				J$^{\pi}$: M1 γ to 3$^+$ and E2 γ to 2$^+$, L(n)=(4) (d,p).
824.992 *4*	2$^+$		DEFGH	J$^{\pi}$: M1,E2 γ to 1$^+$, M1,E2 to 2$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu d_{5/2}$.
835.664 *3*	4$^-$	<140 ps	CDEF H	J$^{\pi}$: M1 γ to 5$^-$, fed by primary γ in (n,γ).
				Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
906.120 *6*	2$^-$		D	J$^{\pi}$: E1 γ to 1$^+$.
909.503 *4*	6$^+$		DEFGH	J$^{\pi}$: M1 γ to 5$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}$.
970.577 *5*	4$^+$,5$^+$,6$^+$		D F H	J$^{\pi}$: M1 γ to 4$^+$.
1003.133 *4*	5$^+$		DEFGH	J$^{\pi}$: M1,E2 γ to 5$^+$, M1,E2 γ to 6$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu d_{3/2}$.
1006.407 *7*	4$^-$		D F	J$^{\pi}$: M1,E2 γ to 3$^-$.
1018.675 *4*	4$^-$,5$^-$		DEF H	J$^{\pi}$: M1 γ to 5$^-$.
1019.750 *4*	7$^+$		D F H	J$^{\pi}$: L(d,t)=4+2,M1,E2 γ to 7$^+$.
				Configuration=$\pi g_{9/2}\otimes\nu g_{7/2}+\pi g_{9/2}\otimes\nu d_{5/2}$.
1032.053 *4*	3$^-$	<104 ps	CDEF H	J$^{\pi}$: M1 γ to 4$^-$, M1 γ to 2$^-$.
				Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
1037.182 *4*	3$^+$,4$^+$,5$^+$	<210 ps	D FGH	J$^{\pi}$: M1 γ to 4$^+$.
1044.905 *5*	6$^+$		D FGH	Configuration=$\pi g_{9/2}\otimes\nu d_{5/2}$.
1047.206 *4*	3$^+$		D	
1059.49 *5*	1$^+$,2$^+$		D F	
1062.528 *3*	3$^+$		D F H	J$^{\pi}$: M1,E2 γ to 2$^+$, M1 to 3$^+$.
1068.6 *20*			G	
1074.03 *3*	1$^+$,2$^+$		D F	J$^{\pi}$: γ's to 1$^+$ and 2$^+$.
1082.7 *13*			G	
1095.1 *9*			G	
1111.797 *7*			D F H	
1139.10 *10*			E GH	
1155.358 *4*	3$^+$,4$^+$		D F H	J$^{\pi}$: γ's to 2$^+$ and M1,E2 γ to 3$^+$.
1164.283 *10*	6$^+$,7$^+$,8$^+$		D F H	J$^{\pi}$: γ's only to positive-parity levels.
1170.25 *4*	2$^+$,3$^+$,4$^+$		FGH	J$^{\pi}$: M1,E2 γ to 3$^+$.
1178.67 *5*	1$^-$,2$^-$,3$^-$		D	J$^{\pi}$: E1 γ to 2$^+$.
1198.947 *4*	4$^-$		D F H	J$^{\pi}$: E1 γ to 3$^+$,M1, E2 to 5$^-$.
1201.530 *7*	3$^-$		D F H	J$^{\pi}$: M1 γ to 4$^-$,5$^-$. γ to 2$^+$.
1205.326 *6*	3$^+$		D	J$^{\pi}$: M1,E2 γ from 3$^+$,4$^+$.
1216.8[#] *2*	10$^-$		C	Configuration=$\pi g_{9/2}\otimes\nu h_{11/2}$.
1256.4 *3*			E	
1271.000 *9*	3$^-$		D H	J$^{\pi}$: M1,E2 γ to 4$^-$.

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Adopted Levels, Gammas (continued)

^{114}In Levels (continued)

E(level)†	Jπ	XREF	Comments
1272.203 *4*	4^+	D	
1295.4 *3*		E	
1303.557 *5*	3^-	D H	Jπ: γ's to $(3)^+,4^-,5^-$ and $4^+,5^+,6^+$.
1311.766 *4*	$3^+,4^+,5^+$	D F H	Jπ: M1 γ to $3^+,4^+$.
1319.570 *9*	$2^+,3^+,4^+$	D H	Jπ: M1,E2 γ to 3^+.
1322.447 *10*	$5^+,6^+,7^+$	D	
1328.920 *8*	6^+	D H	
1336.4 *3*		H	
1341.8 *3*		E G	
1349.014 *4*	$3^-,4^-,5^-$	D H	Jπ: M1 γ to 4^-.
1377.1 *3*		G	
1394.208 *8*	$5^+,6^+$	DE H	XREF: E(1401). Jπ: M1 γ to 6^+.
1401.5 *6*		E	
1406.498 *9*	$2^-,3^-,4^-$	D	Jπ: M1 γ to 3^-.
1424.77 *8*		D H	
1431.619 *9*	4^-	D H	Jπ: M1,E2 γ to 3^-.
1446.5 *3*		H	
1456.0 *3*		G	
1459.2 *3*		H	
1476.0 *3*		E GH	
1484.778 *13*		D H	
1519.4 *20*		E	
1556.9 *10*		E	
1576.45 *9*	$3^+,4^+$	D H	Jπ: M1,E2 γ to 4^+.
1585.1 *6*		D H	
1597.5		H	
1605.4 *3*		H	
1615.926 *19*	$3^+,4^+,5^+$	D GH	XREF: G(1628).
1622.0 *3*		E G	
1651.6 *3*		H	
1658.2 *3*		E G	
1674.6[b] *6*	(8^-)		
1677.645 *21*		DE H	XREF: E(1690).
1690.5 *3*		E G	
1695.4 *3*		H	
1710.5 *3*		H	
1729.5 *3*		H	
1740.8 *3*		H	
1794.8 *3*		H	
1827.5 *3*		H	
1858.0 *4*	(10^-)		
1912.6[#] *4*	(11^-)		
2081.5 *4*	(10^+)		
2340.9[a] *6*	(11^-)		
2505.2[#] *5*	(12^-)		
2521.0[c] *6*	(9^-)		
2531.5[@] *4*	(11^+)		
2629.1[a] *5*	(12^-)		
2679.9[@] *5*	(12^+)		
2846.3[b] *9*	(10^-)		
2874.2[a] *6*	(13^-)		
2930.6[@] *6*	(13^+)		

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Adopted Levels, Gammas (continued)

^{114}In Levels (continued)

E(level)†	Jπ	XREF	Comments
3051.8& 6	(12⁻)		
3093.0# 6	(13⁻)		
3195.7 6	(13⁻)		
3257.5& 10	(13⁻)		
3298.9@ 9	(14⁺)		
3311.3# 7	(14⁻)		
3344.7 8	(14⁺)		
3503.7a 7	(14⁻)		
3516.3 9	(15⁺)		
3576.5& 12	(14⁻)		
3631.7# 10	(15⁻)		
3759.0c 10	(11⁻)		
3767.5 10	(16⁺)		
3791.5@ 11	(15⁺)		
3832.3a 10	(15⁻)		Jπ: (17⁻) in table 1 of 2011Li43 seems a misprint.
3852.1 11	(15⁺)		
3982.9& 14	(15⁻)		
4042.4b 12	(12⁻)		
4153.6a 12	(16⁻)		
4255.7@ 13	(16⁺)		
4376.5# 13	(16⁻)		
4606.3c 12	(13⁻)		
4625.6a 14	(17⁻)		
4828.8b 14	(14⁻)		
5485.0b 16	(16⁻)		
7273.5 3	4⁺,5⁺	H	Jπ: s-wave capture in 9/2⁺ in-113g.s.

† From least-squares fit to Eγ values (mostly ^{113}In(n,γ)).

‡ From 1975Ra07 (n,γ): Primary Gammas, except where noted otherwise.

Band(A): ΔJ=1 band based on 8⁻. Proposed (2011Li43) configuration=$\pi g_{9/2}^{-1}\otimes \nu[(g_{7/2}/d_{5/2})^2(h_{11/2})]$; $\pi g_{9/2}^{-1}\otimes\nu h_{11/2}$ after the backbend.

@ Band(B): ΔJ=1 band based on (11⁺). Proposed (2011Li43) configuration=$\pi g_{9/2}^{-1}\otimes \nu[(g_{7/2}/d_{5/2})(h_{11/2}^2)]$, with possible magnetic-dipole rotational (shears band) character.

& Band(C): ΔJ=1 band based on (12⁻). Proposed (2011Li43) configuration=$\pi g_{9/2}^{-1}\otimes \nu[(g_{7/2}/d_{5/2})^2(h_{11/2})]$.

a Band(D): ΔJ=1 band based on (11⁻). Proposed (2011Li43) configuration=$\pi g_{9/2}^{-1}\otimes\nu h_{11/2}^3$.

b Band(E): ΔJ=2 band based on (8⁻). Proposed (2011Li43) configuration=$\pi[(g_{9/2})^{-2}d_{5/2}]\otimes\nu h_{11/2}$.

c Band(F): ΔJ=2 band based on (9⁻). Proposed (2011Li43) configuration=$\pi[(g_{9/2})^{-2}g_{7/2}]\otimes\nu h_{11/2}$.

γ(^{114}In)

E_i(level)	J_i^π	Eγ†	Iγ†	E_f	J_f^π	Mult.‡	α#	Comments
190.2682	5⁺	190.2684 8	100	0.0	1⁺	E4	5.04	B(E4)(W.u.)=0.0244 7
221.057	4⁺	30.807 4	100	190.2682	5⁺	M1	15.3	
287.734	2⁺	287.734 5	100	0.0	1⁺	M1	0.029	B(M1)(W.u.)>0.013
497.156	5⁺	276.092 5	61 4	221.057	4⁺	M1	0.032	B(M1)(W.u.)=0.0026 19
		306.879 6	100 6	190.2682	5⁺	M1	0.025	B(M1)(W.u.)=0.0031 23
501.948	8⁻	311.665 6	100.0	190.2682	5⁺	E3		B(E3)(W.u.)=0.1278 18
536.297	7⁻	34.350 2	100	501.948	8⁻	M1	11.18	

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Adopted Levels, Gammas (continued)

γ(^{114}In) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]	α[#]	Comments
574.422	6⁻	38.122 *2*	100 *7*	536.297	7⁻	M1	8.25	
		384.08 *4*	16 *5*	190.2682	5⁺	E1		
600.354	3⁻	312.617 *9*	100	287.734	2⁺	E1		
628.032	3⁺	340.290 *3*	100	287.734	2⁺	M1		B(M1)(W.u.)>0.0081
641.745	7⁺	67.26 *8*	4.8 *24*	574.422	6⁻	E1	0.53	B(E1)(W.u.)=8.E−9 *5*
		105.458 *3*	19 *4*	536.297	7⁻	E1	0.15	B(E1)(W.u.)=8.2×10^{-9} *20*
		139.795 *3*	2.3 *6*	501.948	8⁻	E1		B(E1)(W.u.)=4.3×10^{-10} *13*
		451.471 *3*	100 *7*	190.2682	5⁺	E2		B(E2)(W.u.)=0.000163 *22*
687.527	8⁺	45.78 *3*	29 *14*	641.745	7⁺	M1		
		185.5784 *18*	100 *9*	501.948	8⁻	E1		
692.934	2⁻	405.20 *5*	2.7 *4*	287.734	2⁺	E1		
		692.934 *4*	100 *13*	0.0	1⁺	E1		
696.38	5⁻	121.962 *2*	100 *20*	574.422	6⁻	M1	0.29	B(M1)(W.u.)>0.087
		199.207 *6*	0.13 *4*	497.156	5⁺	E1	0.025	B(E1)(W.u.)>3.4×10^{-7}
		475.23 *3*	0.43 *13*	221.057	4⁺	E1		B(E1)(W.u.)>8.3×10^{-8}
		505.99[@] *10*	4.2[@] *9*	190.2682	5⁺	E1		B(E1)(W.u.)>6.7×10^{-7}
725.104	3⁺	437.384 *4*	26.5 *23*	287.734	2⁺	M1,E2		
		504.060 *4*	100 *13*	221.057	4⁺	M1,E2		
728.5300	4⁺	231.372 *5*	6.8 *8*	497.156	5⁺	M1		
		507.482 *4*	46 *8*	221.057	4⁺	M1,E2		
		538.277 *4*	100 *18*	190.2682	5⁺	M1,E2		
775.336	4⁺	147.3025 *15*	100 *19*	628.032	3⁺	M1		B(M1)(W.u.)>0.043
		278.175 *8*	3.7 *4*	497.156	5⁺	M1		B(M1)(W.u.)>0.00024
		487.558 *18*	8.8 *13*	287.734	2⁺	E2		B(E2)(W.u.)>0.34
		585.12 *5*	2.2 *5*	190.2682	5⁺			
824.992	2⁺	537.253 *4*	50 *7*	287.734	2⁺	M1,E2		
		825.000 *6*	100 *12*	0.0	1⁺	M1,E2		
835.664	4⁻	139.278 *2*	100	696.38	5⁻	M1		B(M1)(W.u.)>0.058
906.120	2⁻	213.184 *15*	8.8 *22*	692.934	2⁻			
		618.380 *10*	34 *6*	287.734	2⁺			
		906.102 *10*	100 *13*	0.0	1⁺	E1		
909.503	6⁺	412.3420 *24*	100 *8*	497.156	5⁺	M1,E2		
		719.285 *14*	81 *9*	190.2682	5⁺			
970.577	4⁺,5⁺,6⁺	473.420 *3*	100	497.156	5⁺	M1,E2		
1003.133	5⁺	93.626 *3*	14 *3*	909.503	6⁺	M1		
		505.995[@] *5*	100[@] *22*	497.156	5⁺	M1,E2		
		812.825 *16*	57 *8*	190.2682	5⁺	M1,E2		
1006.407	4⁻	277.82 *3*	20 *7*	728.5300	4⁺			
		406.050 *11*	35 *4*	600.354	3⁻	M1,E2		
		816.136[@] *10*	100[@] *16*	190.2682	5⁺			
1018.675	4⁻,5⁻	243.330 *3*	14.0 *15*	775.336	4⁺			
		290.136 *8*	6.6 *17*	728.5300	4⁺			
		322.306 *4*	100 *10*	696.38	5⁻	M1,E2		
1019.750	7⁺	378.0039 *20*	100	641.745	7⁺	M1,E2		
1032.053	3⁻	196.3870 *7*	100 *7*	835.664	4⁻	M1		B(M1)(W.u.)>0.025
		339.08 *3*	10.3 *21*	692.934	2⁻	M1		B(M1)(W.u.)>0.00051
1037.182	3⁺,4⁺,5⁺	261.844 *3*	100.0 *21*	775.336	4⁺	M1		B(M1)(W.u.)>0.0038
		816.136[@] *10*	54[@] *9*	221.057	4⁺			
1044.905	6⁺	357.372 *4*	86 *9*	687.527	8⁺			
		403.181 *10*	30 *6*	641.745	7⁺			
		508.617[@] *11*	100[@] *12*	536.297	7⁻			
1047.206	3⁺	222.2143 *16*	57 *5*	824.992	2⁺	M1		
		826.142 *19*	100 *13*	221.057	4⁺			
1059.49	1⁺,2⁺	771.70 *5*	59 *11*	287.734	2⁺			

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Adopted Levels, Gammas (continued)

γ(^{114}In) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]	Comments
1059.49	1+,2+	1059.64 *9*	100 *13*	0.0	1+		
1062.528	3+	237.546 *6*	4.3 *6*	824.992	2+		
		333.9934 *24*	13.3 *13*	728.5300	4+	M1,E2	
		774.796 *4*	100 *11*	287.734	2+	M1,E2	
		841.460 *16*	45 *8*	221.057	4+		
1074.03	1+,2+	786.29 *3*	62 *10*	287.734	2+		
		1074.12 *10*	100 *17*	0.0	1+		
1111.797		205.675 *4*	28 *4*	906.120	2−		
		336.494 *20*	100 *9*	775.336	4+		
1139.10		101.95 *10*	1.7 *5*	1037.182	3+,4+,5+		
		641.0 *6*	7 *3*	497.156	5+		
		918.0 *4*	100 *13*	221.057	4+		
1155.358	3+,4+	92.828 *3*	92 *19*	1062.528	3+	M1	
		380.031 *16*	12.9 *23*	775.336	4+		
		527.325 *6*	100 *13*	628.032	3+	M1,E2	
1164.283	6+,7+,8+	337.6 *6*	69 *40*	824.992	2+		
		522.538 *10*	100	641.745	7+	M1,E2	
		588.8 *6*	31 *15*	574.422	6−		
		665.7 *6*	100 *23*	497.156	5+		
		876.0 *10*	96 *60*	287.734	2+		
1170.25	2+,3+,4+	125.04 *10*	20 *10*	1044.905	6+		
		133.04 *10*	10 *5*	1037.182	3+,4+,5+		
		200.66 *25*	27 *10*	970.577	4+,5+,6+		
		334.06 *10*	<23	835.664	4−		
		344.0 *10*	55 *20*	824.992	2+	M1,E2	
		444.5 *7*	80 *25*	725.104	3+		
		473.4 *5*	90 *50*	696.38	5−		
		540.9 *10*	100 *25*	628.032	3+	M1,E2	
		673.3 *7*	40 *15*	497.156	5+		
		948.8 *10*	40 *25*	221.057	4+		
		979.1 *7*	85 *30*	190.2682	5+		
1178.67	1−,2−,3−	890.93 *5*	100	287.734	2+	E1	
1198.947	4−	166.890 *14*	2.3 *7*	1032.053	3−		
		192.525 *13*	2.5 *5*	1006.407	4−		
		363.2808 *25*	25 *3*	835.664	4−	M1,E2	
		423.59[@] *3*	3.6[@] *9*	775.336	4+		
		502.5671 *24*	100 *20*	696.38	5−	M1,E2	
		570.902 *6*	53 *7*	628.032	3+	E1	
1201.530	3−	365.854 *7*	100 *13*	835.664	4−	M1	
		508.617[@] *11*	93[@] *11*	692.934	2−		I_γ: total Iγ=8.6.
1205.326	3+	476.794 *5*	26.7 *20*	728.5300	4+		
		917.66 *5*	100 *15*	287.734	2+		
1271.000	3−	435.332 *9*	100 *7*	835.664	4−	M1,E2	
		578.09 *3*	22 *4*	692.934	2−		
1272.203	4+	269.129 *16*	9.2 *14*	1003.133	5+		
		436.577 *17*	46 *4*	835.664	4−		
		496.99 *4*	9.0 *18*	775.336	4+		
		543.73 *5*	39 *9*	728.5300	4+		
		547.14 *5*	100 *18*	725.104	3+	M1,E2	
		644.25 *4*	15 *3*	628.032	3+	M1,E2	
1303.557	3−	397.427 *9*	39 *5*	906.120	2−		
		467.894 *4*	100 *18*	835.664	4−	M1,E2	
1311.766	3+,4+,5+	156.4085 *9*	100 *9*	1155.358	3+,4+	M1	
		536.473 *21*	15 *3*	775.336	4+		
1319.570	2+,3+,4+	257.018 *24*	14 *4*	1062.528	3+		

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Adopted Levels, Gammas (continued)

γ(^{114}In) (continued)

E_i(level)	J_i^π	E_γ[†]	I_γ[†]	E_f	J_f^π	Mult.[‡]	α[#]
1319.570	2$^+$,3$^+$,4$^+$	691.538 *9*	100 *11*	628.032	3$^+$	M1,E2	
1322.447	5$^+$,6$^+$,7$^+$	158.167 *24*	10 *2*	1164.283	6$^+$,7$^+$,8$^+$		
		351.870 *9*	100 *10*	970.577	4$^+$,5$^+$,6$^+$		
1328.920	6$^+$	632.587 *16*	68 *18*	696.38	5$^-$		
		792.568 *12*	100 *19*	536.297	7$^-$		
1349.014	3$^-$,4$^-$,5$^-$	150.0667 *16*	100 *21*	1198.947	4$^-$	M1	
		573.675 *12*	30 *4*	775.336	4$^+$		
1394.208	5$^+$,6$^+$	65.285 *5*	100 *30*	1328.920	6$^+$	M1	1.72
		375.555 *11*	100 *13*	1018.675	4$^-$,5$^-$		
		391.05 *5*	93 *30*	1003.133	5$^+$		
		423.59[@] *3*	39[@] *10*	970.577	4$^+$,5$^+$,6$^+$		
1406.498	2$^-$,3$^-$,4$^-$	374.447 *8*	100	1032.053	3$^-$	M1,E2	
1424.77		153.46 *8*	15 *4*	1271.000	3$^-$		
		728.08 *14*	100 *13*	696.38	5$^-$		
1431.619	4$^-$	399.569 *8*	59 *7*	1032.053	3$^-$	M1,E2	
		934.44 *3*	100 *9*	497.156	5$^+$		
1484.778		314.20 *9*	95 *30*	1170.25	2$^+$,3$^+$,4$^+$		
		649.118 *12*	2.9 *5*	835.664	4$^-$		
		708.5 *8*	39 *11*	775.336	4$^+$		
		760.2 *7*	43 *16*	725.104	3$^+$		
		986.8 *8*	100 *25*	497.156	5$^+$		
1576.45	3$^+$,4$^+$	151.08 *13*	100	1424.77		M1,E2	
1585.1		749.4 *6*	100	835.664	4$^-$		
1615.926	3$^+$,4$^+$,5$^+$	780.260 *18*	100	835.664	4$^-$		
1674.6	(8$^-$)	1172.7 *7*	4.6 *5*	501.948	8$^-$	M1+E2	
1677.645		841.973 *23*	93 *15*	835.664	4$^-$		
		952.55 *4*	100 *18*	725.104	3$^+$		
1858.0	(10$^-$)	641.3 *7*	2.5 *2*	1216.8	10$^-$	M1+E2	
		1217.7 *7*	3.4 *5*	641.74	9$^-$	M1+E2	
		1356.2 *5*	19.4 *3*	501.948	8$^-$	E2	
1912.6	(11$^-$)	695.9 *3*	34.1 *11*	1216.8	10$^-$	M1+E2	
		1272.3 *5*	13.0 *5*	641.74	9$^-$	E2	
2081.5	(10$^+$)	865.4 *5*	5.7 *3*	1216.8	10$^-$	E1	
		1393.8 *5*	13.9 *2*	687.527	8$^+$	E2	
2340.9	(11$^-$)	1124.2 *5*	10.4 *7*	1216.8	10$^-$	M1+E2	
2505.2	(12$^-$)	592.6 *5*	15.6 *14*	1912.6	(11$^-$)	M1+E2	
		1288.5 *5*	5.5 *4*	1216.8	10$^-$	E2	
2521.0	(9$^-$)	846.5 *7*	2.3 *4*	1674.6	(8$^-$)	M1+E2	
		1304.3 *7*	2.1 *2*	1216.8	10$^-$	M1+E2	
2531.5	(11$^+$)	450.6 *7*	3.3 *5*	2081.5	(10$^+$)	M1+E2	
		618.9 *7*	3.3 *5*	1912.6	(11$^-$)	E1	
		673.5 *5*	11.2 *2*	1858.0	(10$^-$)	E1	
		1314.5 *5*	7.1 *2*	1216.8	10$^-$	E1	
2629.1	(12$^-$)	288.2 *7*	1.7 *4*	2340.9	(11$^-$)	M1+E2	
		716.5 *7*	4.6 *6*	1912.6	(11$^-$)	M1+E2	
		1412.4 *7*	4.0 *6*	1216.8	10$^-$	E2	
2679.9	(12$^+$)	148.4 *3*	23.3 *25*	2531.5	(11$^+$)	M1+E2	
2846.3	(10$^-$)	1171.7 *7*	2.2 *2*	1674.6	(8$^-$)	E2	
2874.2	(13$^-$)	245.1 *7*	4.0 *2*	2629.1	(12$^-$)	M1+E2	
		369.0 *7*	1.3 *4*	2505.2	(12$^-$)	M1+E2	
		961.6 *7*	3.8 *5*	1912.6	(11$^-$)	E2	
2930.6	(13$^+$)	250.7 *3*	22.4 *13*	2679.9	(12$^+$)	M1+E2	
3051.8	(12$^-$)	520.3 *7*	0.9 *3*	2531.5	(11$^+$)	E1	
		1139.2 *7*	2.0 *5*	1912.6	(11$^-$)	M1+E2	
3093.0	(13$^-$)	587.8 *7*	3.6 *2*	2505.2	(12$^-$)	M1+E2	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

γ(^{114}In) (continued)

E_i(level)	J_i^π	E_γ †	I_γ †	E_f	J_f^π	Mult.‡
3093.0	(13$^-$)	1180.4 *7*	1.7 *3*	1912.6	(11$^-$)	E2
3195.7	(13$^-$)	690.5 *7*	3.5 *3*	2505.2	(12$^-$)	M1+E2
		1283.1 *7*	1.6 *3*	1912.6	(11$^-$)	E2
3257.5	(13$^-$)	205.7 *7*	0.8 *2*	3051.8	(12$^-$)	M1+E2
3298.9	(14$^+$)	368.3 *7*	13.5 *7*	2930.6	(13$^+$)	M1+E2
3311.3	(14$^-$)	115.6 *7*	1.9 *2*	3195.7	(13$^-$)	M1+E2
		218.3 *7*	1.7 *3*	3093.0	(13$^-$)	M1+E2
3344.7	(14$^+$)	414.1 *5*	8.7 *6*	2930.6	(13$^+$)	M1+E2
3503.7	(14$^-$)	410.7 *7*		3093.0	(13$^-$)	M1+E2
		629.5 *7*	4.0 *5*	2874.2	(13$^-$)	M1+E2
3516.3	(15$^+$)	171.6 *7*	4.1 *3*	3344.7	(14$^+$)	M1+E2
		217.4 *7*	4.6 *6*	3298.9	(14$^+$)	M1+E2
3576.5	(14$^-$)	319.0 *7*	0.6 *2*	3257.5	(13$^-$)	M1+E2
3631.7	(15$^-$)	320.4 *7*	2.4 *2*	3311.3	(14$^-$)	M1+E2
3759.0	(11$^-$)	1237.9 *7*	4.3 *2*	2521.0	(9$^-$)	E2
3767.5	(16$^+$)	251.2 *5*	7.6 *18*	3516.3	(15$^+$)	M1+E2
3791.5	(15$^+$)	492.6 *7*	2.6 *2*	3298.9	(14$^+$)	M1+E2
3832.3	(15$^-$)	328.6 *7*	2.6 *2*	3503.7	(14$^-$)	M1+E2
3852.1	(15$^+$)	553.2 *7*	1.5 *3*	3298.9	(14$^+$)	M1+E2
3982.9	(15$^-$)	406.4 *7*	0.5 *5*	3576.5	(14$^-$)	M1+E2
4042.4	(12$^-$)	1196.1 *7*	2.2 *2*	2846.3	(10$^-$)	E2
4153.6	(16$^-$)	321.3 *7*	2.0 *3*	3832.3	(15$^-$)	M1+E2
4255.7	(16$^+$)	464.2 *7*	1.1 *2*	3791.5	(15$^+$)	M1+E2
4376.5	(16$^-$)	744.8 *7*	0.9 *3*	3631.7	(15$^-$)	M1+E2
4606.3	(13$^-$)	847.3 *7*	1.7 *3*	3759.0	(11$^-$)	E2
4625.6	(17$^-$)	472.0 *7*	0.9 *2*	4153.6	(16$^-$)	M1+E2
4828.8	(14$^-$)	786.4 *7*	0.7 *1*	4042.4	(12$^-$)	E2
5485.0	(16$^-$)	656.2 *7*	0.4 *1*	4828.8	(14$^-$)	E2

† From 2002SaZO (n,γ) if possible.

‡ From α(K)exp data of 2002SaZO (n,γ) and 1986Ti01 in ^{114}Cd(p,nγ), except for the 311 E3 γ, whose assignment is based on ce data in IT decay.

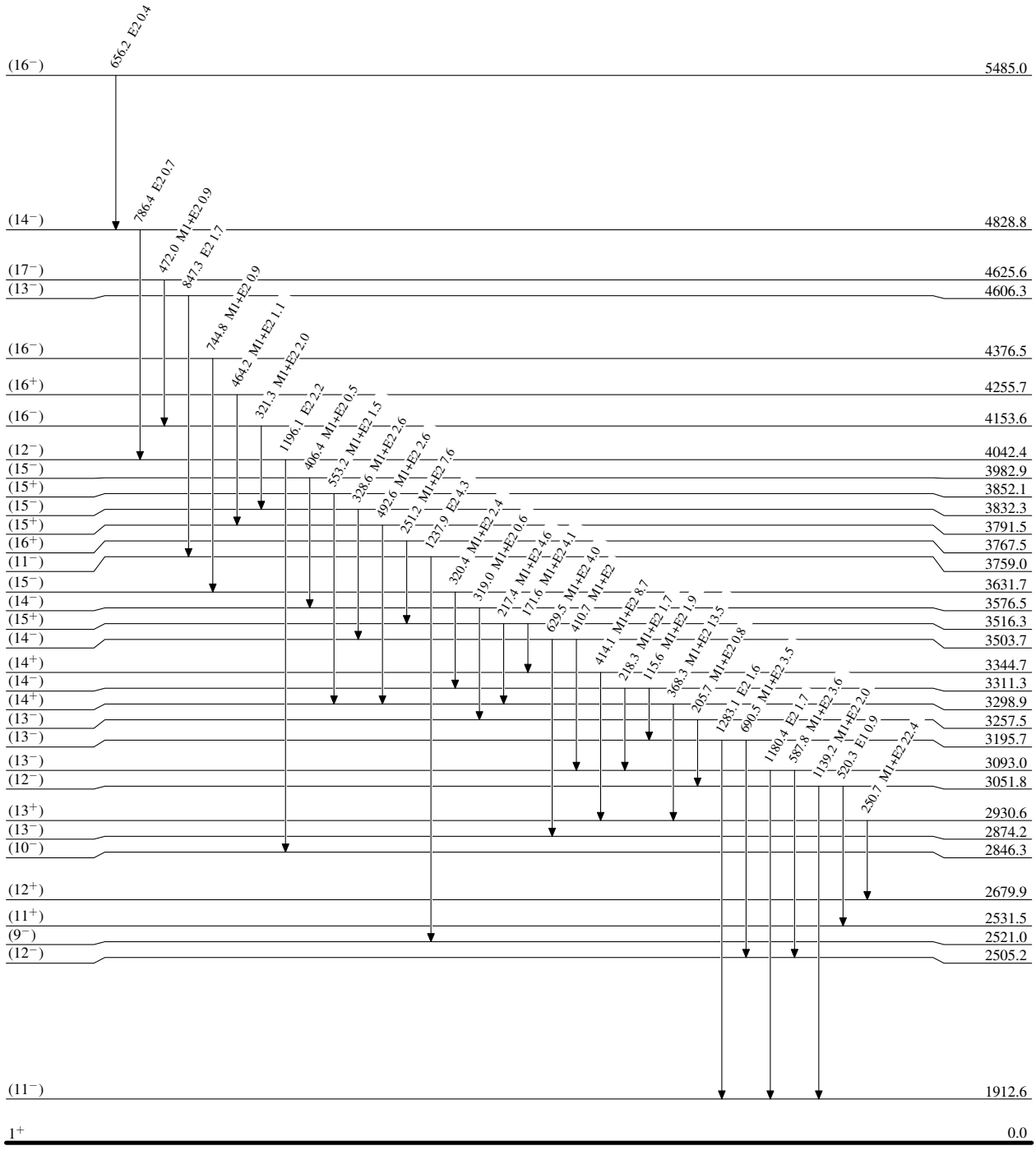
Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

@ Multiply placed with intensity suitably divided.

Adopted Levels, Gammas

Level Scheme

Intensities: Relative photon branching from each level

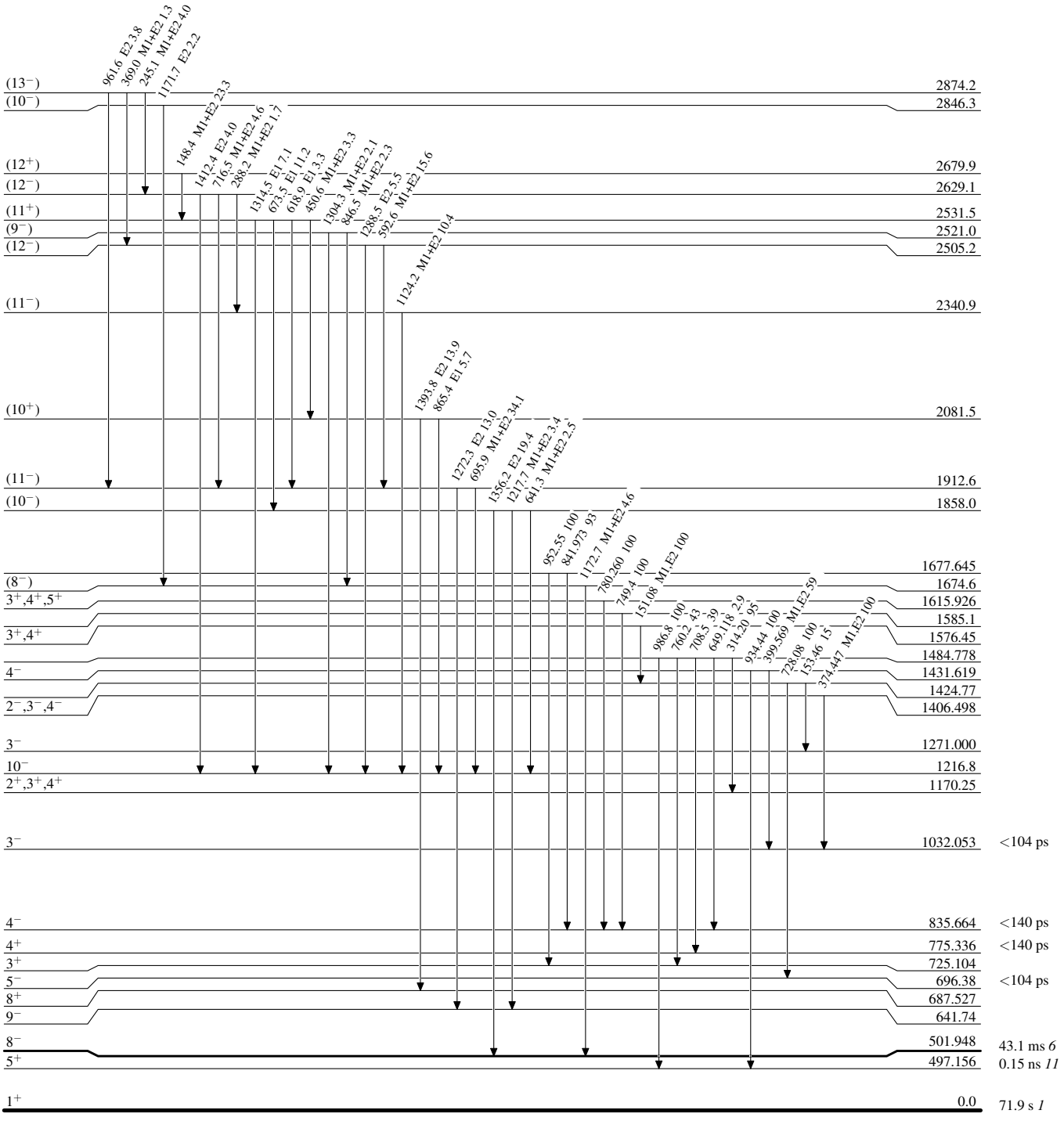


$^{114}_{49}In_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level

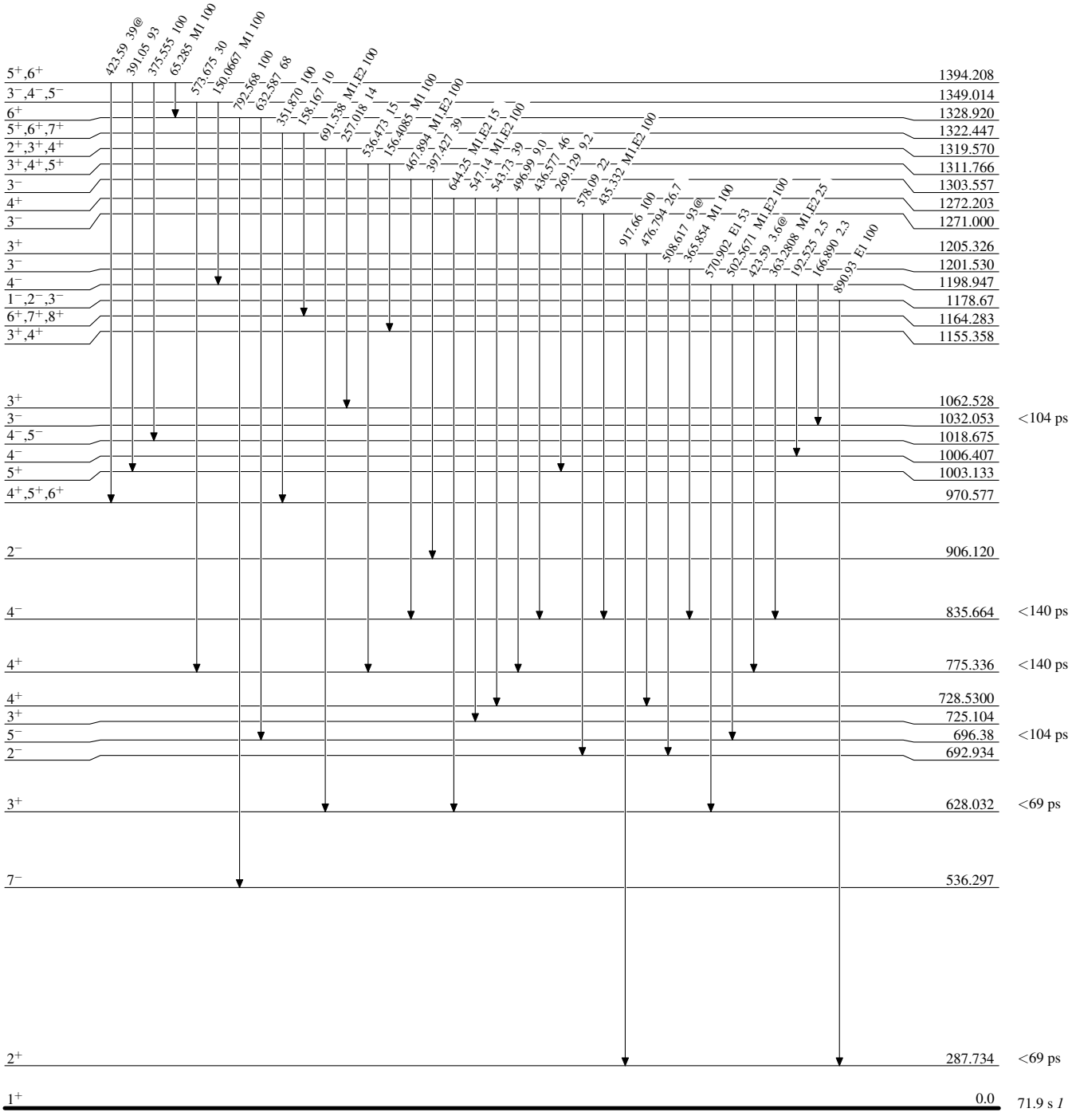


$^{114}_{49}In_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided

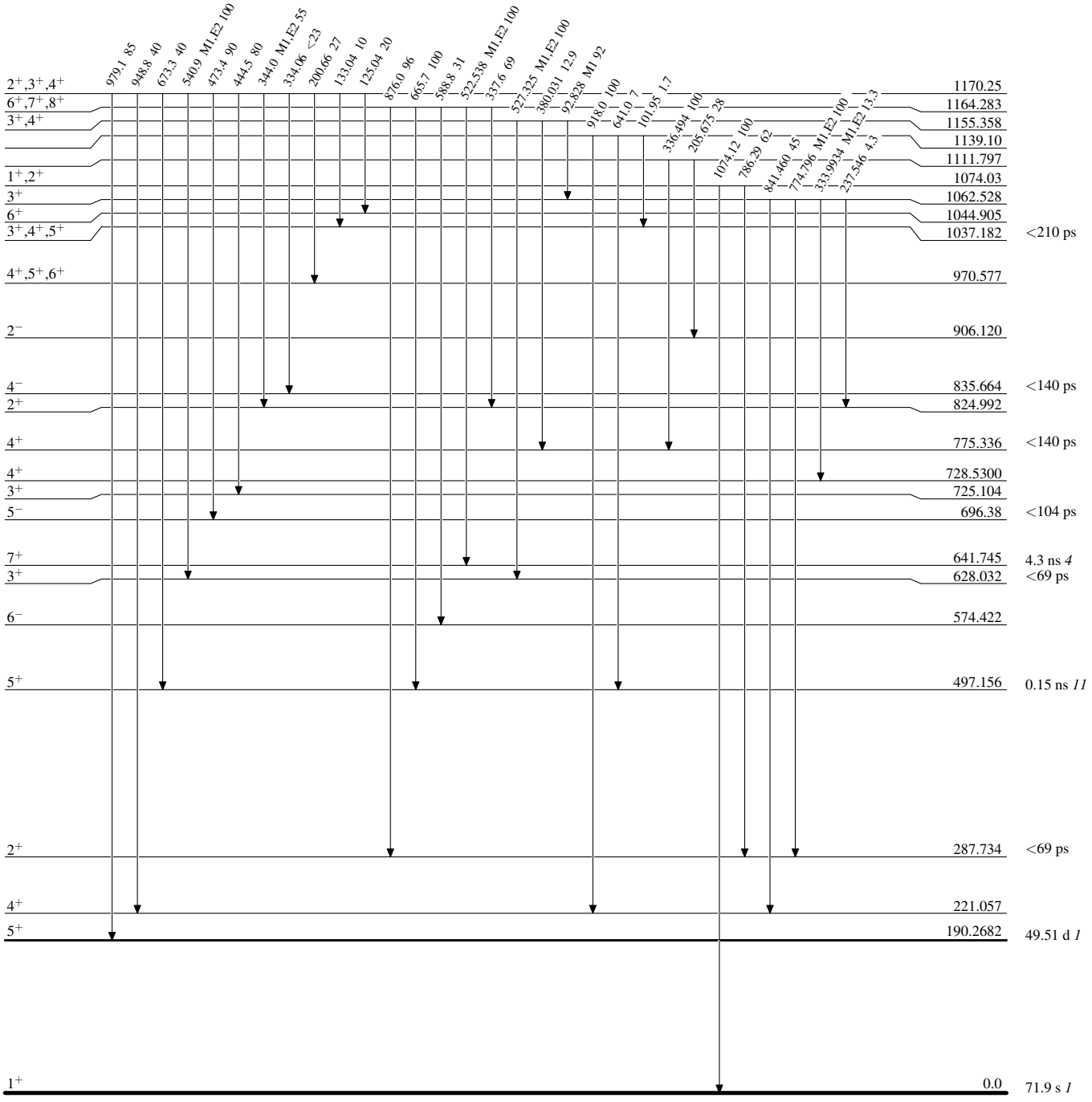


$^{114}_{49}In_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

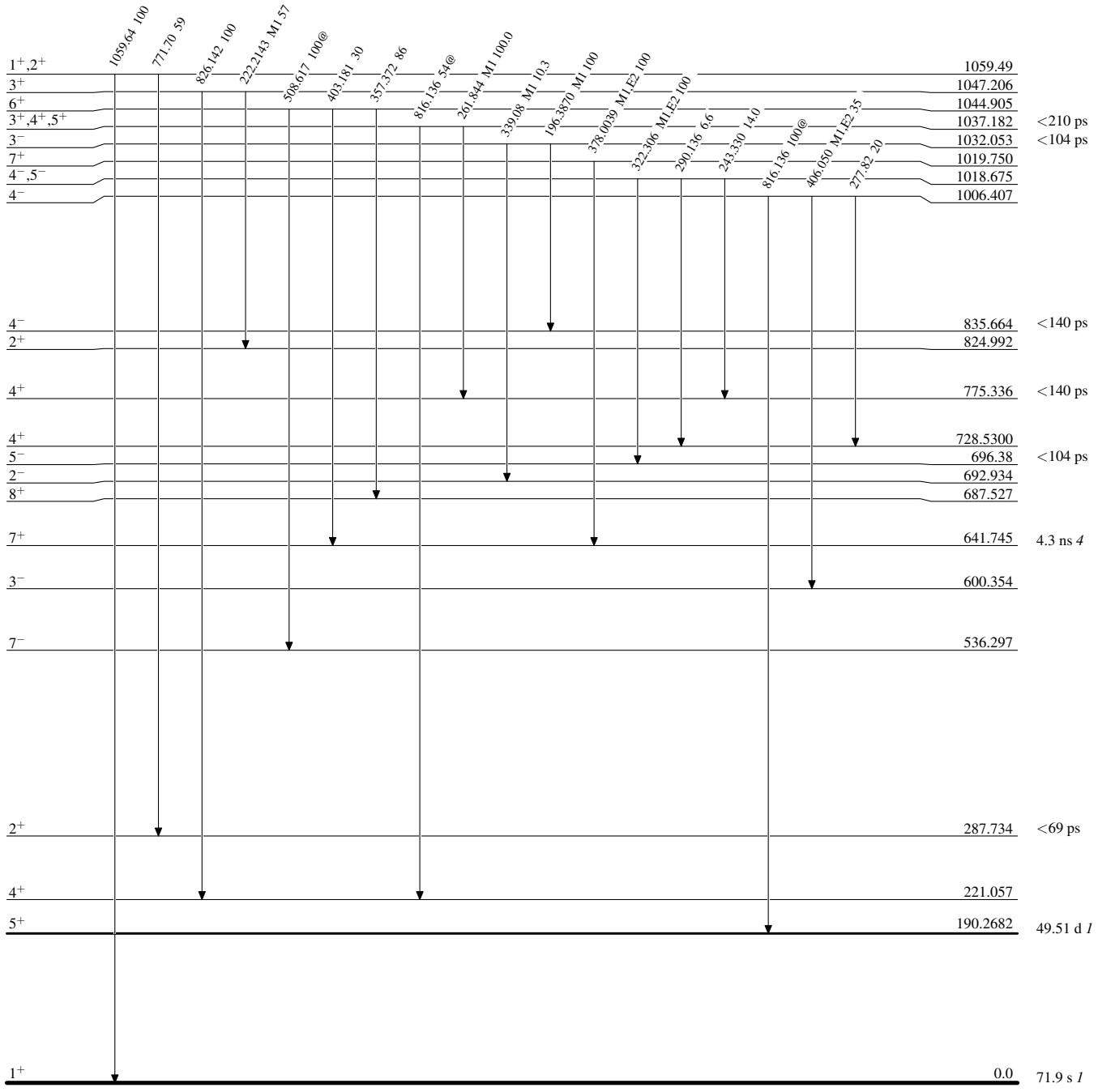
Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided



Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided

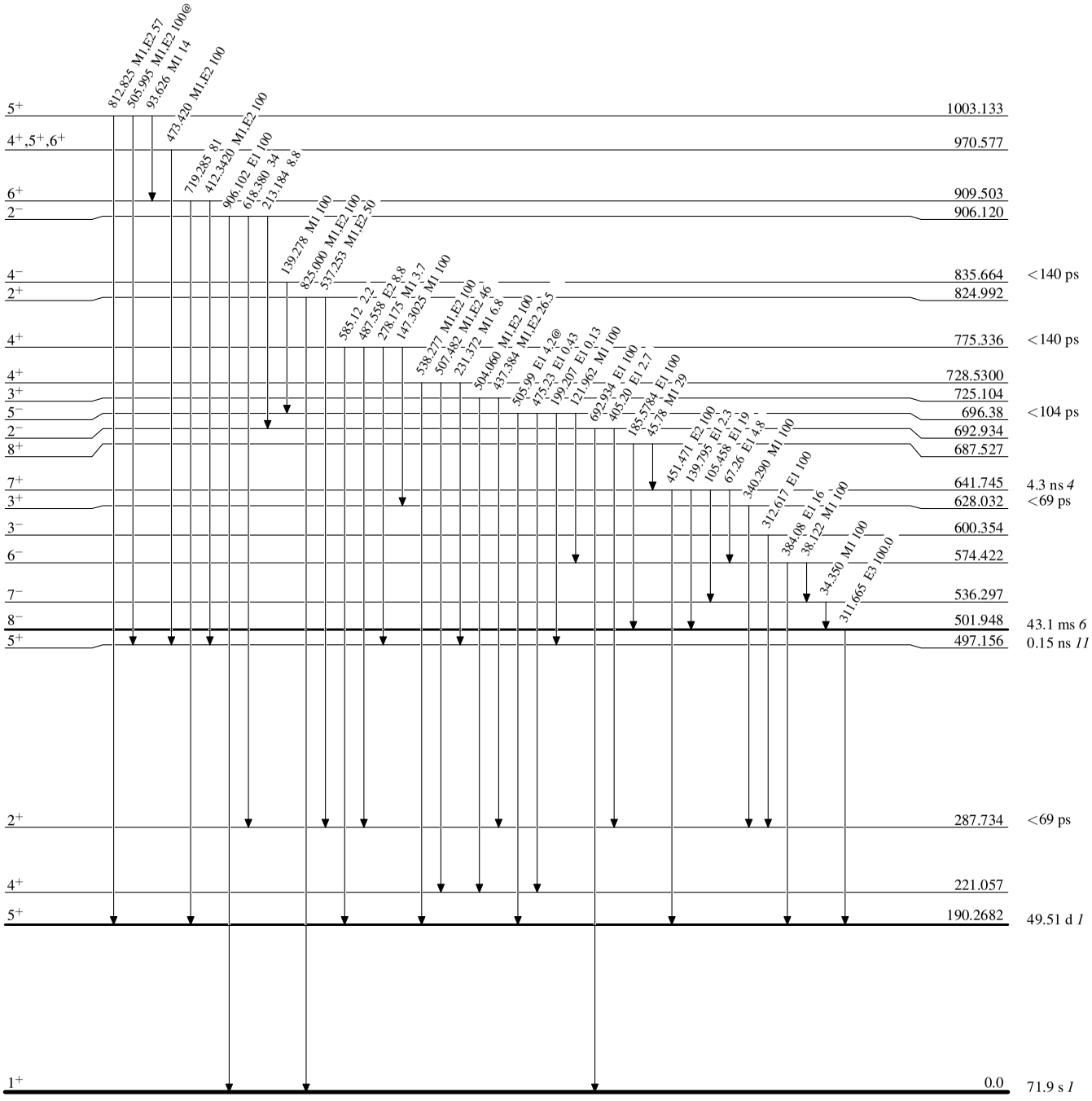


$^{114}_{49}In_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided

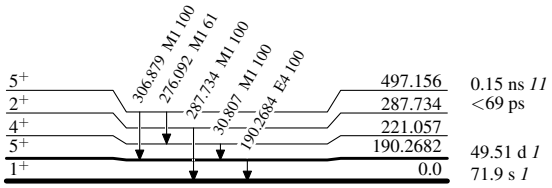


$^{114}_{49}In_{65}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level
@ Multiply placed: intensity suitably divided



$^{114}_{49}In_{65}$

Adopted Levels, Gammas