Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 195,1 (2024)	19-Sep-2023

Q(β^-)=−3660 *80*; S(n)=8340 *80*; S(p)=2290 *80*; Q(α)=3450 *80* 2021Wa16
S(2n)=18700 *90*, S(2p)=7110 *80*, Q(εp)=1780 *80* (2021Wa16).
Additional information 1.
For theoretical treatments and discussions of signature splitting and inversion in ^{162}Lu and in doubly-odd nuclides in this mass region, see, e.g., 2001Ri19 and 2003Ya19. For recent discussions of triaxial superdeformation in nuclides in this mass region, see, e.g., 2004Ha21 and 2003Br03.

^{162}Lu Levels

Cross Reference (XREF) Flags

- A ^{162}Hf ε decay
- B (HI,xnγ)
- C ^{147}Sm(^{19}F,4n)
- D ^{100}Mo(^{65}Cu,3nγ):SD

E(level)	J$^\pi$[†]	$T_{1/2}$	XREF	Comments
0	1$^-$	1.37 min *2*	A C	%ε+%β^+=100 μ=+0.0553 *11*; Q=+0.519 *8* J$^\pi$: J from 1998Ge13, collinear LASER spectroscopy. π=−, from comparison of μ with that calculated based on the expected configuration=(π 1/2[411])-(ν 3/2[521]). $T_{1/2}$: weighted average of 1.40 min *15* (1978Bu13), 1.43 min *8* (1979Al16, 1980Be39), and 1.37 min *2* (1983Ge08). However, 1980BeYG report the existence of 1 or 2 additional isomers so these values may not represent pure sources. Others: 1.4 min (1969NeZW), 1.6 min *3* (1976ErZY), and 1.35 min (1980BeYG). μ: From 2014StZZ compilation, measured by 1998Ge13, collinear LASER spectroscopy. +0.0551 *11* in 2019StZV compilation (possibly typographical error). Q: From 2016St14 compilation, measured by 1998Ge13, collinear LASER spectroscopy. $\Delta<r^2>$(162-170)=−1.011 fm^2 (1998Ge13) and $\Delta<r^2>$(162-164)=−0.290 fm^2 from subtraction of values in 1998Ge13. Measurements were by collinear laser spectroscopy. The authors state "differences of mean square radii are subject to a 10% general calibration error.". In an evaluation of nuclear rms charge radii, 2013An02 report $<r^2>^{1/2}$=5.2398 fm *317*.
5.0? *3*			A	
79.2? *3*			A	
173.89? *5*			A	
196.34 *5*			A	
453.34 *5*			A	
552.8 *3*			A	
606.47 *11*			A	
x	(4$^-$)	1.5 min	C	%ε+%$\beta^+\leq$100 E(level): level proposed by 1980BeYG from γ half-lives in source of ^{162}Lu isomers. J$^\pi$: value suggested by 1980BeYG. By analogy with the situation in ^{164}Lu, 1$^-$ and 4$^-$ states are expected at low energies in ^{162}Lu. The possible configuration is (π 5/2[402])+(ν 3/2[521]). $T_{1/2}$: from γ(t) in ^{162}Lu ε decay (1980BeYG).
y		1.9 min	C	%ε+%$\beta^+\leq$100 E(level): level proposed by 1980BeYG from γ half-lives in source of ^{162}Lu isomers. $T_{1/2}$: from γ(t) in ^{162}Lu ε decay (1980BeYG).
0.0+z	(9$^-$)		B	
16.6+z?			B	

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Adopted Levels, Gammas (continued)

^{162}Lu Levels (continued)

E(level)	J^{π}[†]	XREF	Comments
143.8+z[#]	(10$^-$)	B	
224.5+z[‡]	(11$^-$)	B	
301.6+z[a]	J	B	J^{π}: 1997Ca29, in (HI,xnγ), suggest that the spin of this level lies between 9 and 12.
420.0+z[#]	(12$^-$)	B	
580.5+z[‡]	(13$^-$)	B	
583.1+z		B	
722.4+z[a]	J+2	B	
857.1+z[#]	(14$^-$)	B	
1085.3+z		B	
1091.3+z[‡]	(15$^-$)	B	
1258.6+z[a]	J+4	B	
1417.5+z[#]	(16$^-$)	B	
1681.6+z		B	
1717.2+z[‡]	(17$^-$)	B	
1879.8+z[a]	J+6	B	
1999.6+z[&]	(16$^+$)	B	
2074.0+z[#]	(18$^-$)	B	
2205.7+z[@]	(17$^+$)	B	
2339.1+z[b]	J+7	B	
2398.6+z[&]	(18$^+$)	B	
2426.2+z[‡]	(19$^-$)	B	
2524.1+z[b]	J+8	B	
2565.2+z[a]	J+8	B	
2594.6+z[@]	(19$^+$)	B	
2734.6+z[b]	J+9	B	
2800.3+z[#]	(20$^-$)	B	
2825.7+z[&]	(20$^+$)	B	
2991.8+z[b]	J+10	B	
3086.3+z[@]	(21$^+$)	B	
3183.1+z[‡]	(21$^-$)	B	
3237.8+z[b]	J+11	B	
3369.4+z[&]	(22$^+$)	B	
3547.4+z[#]	(22$^-$)	B	
3558.3+z[b]	J+12	B	
3687.3+z[@]	(23$^+$)	B	
3852.9+z[b]	J+13	B	
3921.9+z[‡]	(23$^-$)	B	
4026.3+z[&]	(24$^+$)	B	
4226.5+z[b]	J+14	B	
4262.2+z[#]	(24$^-$)	B	
4391.4+z[@]	(25$^+$)	B	
4584.5+z[b]	J+15	B	
4634.5+z[‡]	(25$^-$)	B	
4787.2+z[&]	(26$^+$)	B	
4982.2+z[#]	(26$^-$)	B	

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Adopted Levels, Gammas (continued)

^{162}Lu Levels (continued)

E(level)	J^{π}[†]	XREF	Comments
4992.3+z[b]	J+16	B	
5190.2+z[@]	(27$^+$)	B	
5379.8+z[‡]	(27$^-$)	B	
5400.0+z[b]	J+17	B	
5631.3+z[&]	(28$^+$)	B	
5751.2+z[#]	(28$^-$)	B	
5835.4+z[b]	J+18	B	
6074.2+z[@]	(29$^+$)	B	
6185.4+z[‡]	(29$^-$)	B	
6290.7+z[b]	J+19	B	From 1997Gu18. 1997Ca29 do not report levels above the J+18 level.
6554.9+z?[&]	(30$^+$)	B	
6750.9+z?[b]	J+20	B	
7244.5+z?[b]	J+21	B	
u[c]	J1	D	
508.0+u[c]	J1+2	D	
1072.2+u[c]	J1+4	D	
1699.2+u[c]	J1+6	D	
2388.5+u[c]	J1+8	D	
3139.6+u[c]	J1+10	D	
3950.6+u[c]	J1+12	D	
4819.4+u[c]	J1+14	D	
5742.3+u[c]	J1+16	D	
6720.0+u[c]	J1+18	D	
7747.7+u[c]	J1+20	D	
v[d]	J2	D	J^{π}: from ^{100}Mo(^{65}Cu,3nγ), 2003Br03 suggest $J_2=15^+$.
420.4+v[d]	J2+2	D	
906.1+v[d]	J2+4	D	
1455.4+v[d]	J2+6	D	
2066.6+v[d]	J2+8	D	
2738.0+v[d]	J2+10	D	
3467.9+v[d]	J2+12	D	
4254.6+v[d]	J2+14	D	
5096.4+v[d]	J2+16	D	
5992+v[d]	J2+18	D	
6943+v[d]	J2+20	D	
7946+v[d]	J2+22	D	
w[e]	J3	D	
578.3+w[e]	J3+2	D	
1217.1+w[e]	J3+4	D	
1916.3+w[e]	J3+6	D	
2674.2+w[e]	J3+8	D	
3490.0+w[e]	J3+10	D	
4360.0+w[e]	J3+12	D	
5281.6+w[e]	J3+14	D	
6246.8+w[e]	J3+16	D	
7247.6+w[e]	J3+18	D	

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Adopted Levels, Gammas (continued)

^{162}Lu Levels (continued)

E(level)	J$^{\pi}$[†]	XREF
8283.1+w[e]	J3+20	D
9344.6+w[e]	J3+22	D

[†] Unless noted otherwise, the J^{π} values are those proposed by the authors of the heavy ion-induced reaction studies. These assignments are, as these authors point out, model-dependent. For a discussion of the assumptions on which these are based, see the (HI,xnγ) data set. In SD bands, the intraband transitions were proposed as stretched quadrupole transitions from $\gamma\gamma(\theta)$(DCO) data (2003Br03).

[‡] Band(A): (π $h_{11/2}$)(ν $i_{13/2}$) yrast band, signature=(1).

[#] Band(B): (π $h_{11/2}$)(ν $i_{13/2}$) yrast band, signature=(0).

[@] Band(C): Four-quasiparticle band, signature=(1). From (HI,xnγ), 1997Ca29 propose the configuration (π 7/2$^+$[404])(ν $i_{13/2}$)(ν $i_{13/2}$)^2 for this band, while 1997Gu18 propose (π 7/2$^-$[523])(ν 3/2$^-$[521])(ν $i_{13/2}$)^2.

[&] Band(D): Four-quasiparticle band, signature=(0). See the comment on the signature-(1) portion of this band.

[a] Band(E): possible rotational band.

[b] Band(F): probable four-quasiparticle band.

[c] Band(G): Triaxial superdeformed band (SD-1). See the comments on this band in the ^{100}Mo(^{65}Cu,3nγ) data set.

[d] Band(H): Triaxial superdeformed band (SD-2). See the comments on this band in the ^{100}Mo(^{65}Cu,3nγ) data set.

[e] Band(I): Triaxial superdeformed band (SD-3). See the comments on this band in the ^{100}Mo(^{65}Cu,3nγ) data set.

γ(^{162}Lu)

E$_i$(level)	J$_i^{\pi}$	E$_{\gamma}$	I$_{\gamma}$[†]	E$_f$	J$_f^{\pi}$	Mult.	α[‡]	Comments
5.0?		(5.0 *3*)	100	0	1$^-$			
79.2?		79.2 *4*	100	0	1$^-$			
173.89?		173.90 *5*	100	0	1$^-$			
196.34		22.48 *10*	10 *3*	173.89?		(M1)	48.9 *10*	α(L)=38.0 *8*; α(M)=8.56 *17* α(N)=2.02 *4*; α(O)=0.299 *6*; α(P)=0.0184 *4*
		117.2 *4*	≈3	79.2?				
		191.2 *3*	10 *3*	5.0?				
		196.34 *5*	100 *10*	0	1$^-$			
453.34		257.3 *3*	100 *25*	196.34				
		452.8 *4*	75 *25*	0	1$^-$			
552.8		356.5 *3*	100	196.34				
606.47		410.12 *10*	100 *17*	196.34				
		601.7 *5*	9.4 *3*	5.0?				
143.8+z	(10$^-$)	143.6	100	0.0+z	(9$^-$)	D		
224.5+z	(11$^-$)	80.6	100	143.8+z	(10$^-$)	D		
		224.7	65 *11*	0.0+z	(9$^-$)	Q		I$_{\gamma}$: branching ratio from 1997Gu18.
301.6+z	J	285.0[#]	100	16.6+z?				
420.0+z	(12$^-$)	195.6	100	224.5+z	(11$^-$)	D		
		276.2	22 *3*	143.8+z	(10$^-$)			I$_{\gamma}$: branching ratio from 1997Gu18.
580.5+z	(13$^-$)	160.5	100	420.0+z	(12$^-$)	D		
		356.0	82 *7*	224.5+z	(11$^-$)	Q		I$_{\gamma}$: weighted average of 80 *11* (1996Zh05) and 83 *9* (1997Gu18).
722.4+z	J+2	420.8	100	301.6+z	J	Q		
857.1+z	(14$^-$)	276.6	100	580.5+z	(13$^-$)	D		
		437.1	30 *3*	420.0+z	(12$^-$)	Q		I$_{\gamma}$: weighted average of 22 *11* (1996Zh05) and 31 *3* (1997Gu18). 1997Ca29 report 50 *6* for this γ branch.
1085.3+z		502.2	100	583.1+z				
1091.3+z	(15$^-$)	234.2	100	857.1+z	(14$^-$)	D		
		510.8	129 *9*	580.5+z	(13$^-$)	Q		I$_{\gamma}$: weighted average of 134 *13* (1997Gu18) and

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Adopted Levels, Gammas (continued)

γ(^{162}Lu) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.	Comments
							125 *13* (1997Ca29). 1996Zh05 report 83 *14* for this γ branch.
1258.6+z	J+4	536.2	100	722.4+z	J+2	Q	
1417.5+z	(16$^-$)	326.3	100	1091.3+z	(15$^-$)	D	
		560.3	72 *7*	857.1+z	(14$^-$)	Q	I_γ: weighted average of 69 *8* (1997Gu18) and 84 *15* (1997Ca29).
1681.6+z		596.3	100	1085.3+z			
1717.2+z	(17$^-$)	299.8	100	1417.5+z	(16$^-$)	D	
		626.0	184 *12*	1091.3+z	(15$^-$)	Q	I_γ: weighted average of 151 *27* (1996Zh06), 202 *22* (1997Gu18) and 185 *15* (1997Ca29).
1879.8+z	J+6	621.6	100	1258.6+z	J+4	Q	
1999.6+z	(16$^+$)	582.8[#]	100	1417.5+z	(16$^-$)	Q	
		908.2	9.6 *14*	1091.3+z	(15$^-$)		
2074.0+z	(18$^-$)	356.7	100	1717.2+z	(17$^-$)	D	
		656.5	121 *17*	1417.5+z	(16$^-$)	Q	I_γ: weighted average of 180 *90* (1996Zh05), 109 *14* (1997Gu18) and 170 *30* (1997Ca29).
2205.7+z	(17$^+$)	206.2	100 *10*	1999.6+z	(16$^+$)		
		524.1	19 *2*	1681.6+z			
		788.0	77 *10*	1417.5+z	(16$^-$)	D	
2339.1+z	J+7	657.5	100	1681.6+z			
2398.6+z	(18$^+$)	192.8	100 *8*	2205.7+z	(17$^+$)	D	
		398.8	43 *4*	1999.6+z	(16$^+$)		I_γ: weighted average of 49 *8* (1997Gu18) and 42 *4* (1997Ca29).
		681.8	8.8 *6*	1717.2+z	(17$^-$)		
2426.2+z	(19$^-$)	352.3	100	2074.0+z	(18$^-$)		
		709.1	227 *22*	1717.2+z	(17$^-$)	Q	I_γ: weighted average of 200 *50* (1996Zh05), 240 *30* (1997Gu18) and 220 *40* (1997Ca29).
2524.1+z	J+8	185.0	78	2339.1+z	J+7	D	
		644.3	100	1879.8+z	J+6	Q	
2565.2+z	J+8	685.0	100	1879.8+z	J+6		
2594.6+z	(19$^+$)	196.0	100	2398.6+z	(18$^+$)	D	
		388.8	56 *7*	2205.7+z	(17$^+$)		I_γ: weighted average of 61 *9* (1997Gu18) and 50 *10* (1997Ca29),
2734.6+z	J+9	210.4	100	2524.1+z	J+8	D	
		395.4	35 *4*	2339.1+z	J+7	Q	I_γ: weighted average of 36 *5* (1997Gu18) and 33 *7* (1997Ca29).
2800.3+z	(20$^-$)	374.1	100	2426.2+z	(19$^-$)		
		726.3	160 *21*	2074.0+z	(18$^-$)	Q	I_γ: weighted average of 150 *30* (1996Zh05) and 170 *30* (1997Ca29).
2825.7+z	(20$^+$)	231.0	100	2594.6+z	(19$^+$)	D	
		427.2	43 *5*	2398.6+z	(18$^+$)	Q	I_γ: weighted average of 44 *6* (1997Gu18) and 42 *8* (1997Ca29).
2991.8+z	J+10	257.2	100	2734.6+z	J+9	D	
		467.8	31 *3*	2524.1+z	J+8	Q	I_γ: weighted average of 38 *6* (1997Gu18) and 29 *3* (1997Ca29).
3086.3+z	(21$^+$)	260.6	100	2825.7+z	(20$^+$)	D	
		491.6	63 *6*	2594.6+z	(19$^+$)	(Q)	I_γ: weighted average of 66 *8* (1997Gu18) and 59 *9* (1997Ca29).
3183.1+z	(21$^-$)	382.8	100	2800.3+z	(20$^-$)	D	
		756.9	195 *22*	2426.2+z	(19$^-$)	Q	I_γ: weighted average of 200 *60* (1996Zh05), 180 *30* (1997Gu18), and 220 *40* (1997Ca29).
3237.8+z	J+11	246.3	100	2991.8+z	J+10	D	
		503.1	62 *7*	2734.6+z	J+9	Q	I_γ: weighted average of 67 *10* (1997Gu18) and 56 *11* (1997Ca29).
3369.4+z	(22$^+$)	283.0	100	3086.3+z	(21$^+$)	D	

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Adopted Levels, Gammas (continued)

γ(^{162}Lu) (continued)

E_i(level)	J_i^π	E_γ	I_γ †	E_f	J_f^π	Mult.	Comments
3369.4+z	(22$^+$)	543.7	62 *6*	2825.7+z	(20$^+$)	Q	I_γ: weighted average of 58 *7* (1997Gu18) and 77 *14* (1997Ca29).
3547.4+z	(22$^-$)	364.5	100	3183.1+z	(21$^-$)	D	
		747.0	2.1×10^2 *3*	2800.3+z	(20$^-$)	Q	I_γ: weighted average of 190 *40* (1997Gu18) and 240 *60* (1997Ca29).
3558.3+z	J+12	320.6	100	3237.8+z	J+11	D	
		566.5	56 *7*	2991.8+z	J+10	Q	I_γ: weighted average of 55 *8* (1997Gu18) and 59 *13* (1997Ca29).
3687.3+z	(23$^+$)	317.8	100	3369.4+z	(22$^+$)	D	
		601.1	98 *20*	3086.3+z	(21$^+$)		I_γ: weighted average of 126 *18* (1997Gu18) and 83 *13* (1997Ca29).
3852.9+z	J+13	294.5	100	3558.3+z	J+12	D	
		615.0	85 *19*	3237.8+z	J+11	Q	I_γ: weighted average of 103 *14* (1997Gu18) and 65 *15* (1997Ca29).
3921.9+z	(23$^-$)	374.5	100	3547.4+z	(22$^-$)		
		738.7	1.9×10^2 *4*	3183.1+z	(21$^-$)	Q	I_γ: weighted average of 170 *100* (1996Zh05) and 190 *50* (1997Ca29).
4026.3+z	(24$^+$)	338.8	100	3687.3+z	(23$^+$)	D	
		657.1	104 *13*	3369.4+z	(22$^+$)	Q	I_γ: weighted average of 119 *19* (1997Gu18) and 91 *18* (1997Ca29).
4226.5+z	J+14	373.5	100	3852.9+z	J+13	D	
		668.2	72 *10*	3558.3+z	J+12	Q	I_γ: weighted average of 70 *11* (1997Gu18) and 80 *20* (1997Ca29).
4262.2+z	(24$^-$)	340.3	100	3921.9+z	(23$^-$)	D	
		714.8	162 *23*	3547.4+z	(22$^-$)	Q	I_γ: weighted average of 170 *80* (1996Zh05), 180 *40* (1997Gu18) and 150 *30* (1997Ca29).
4391.4+z	(25$^+$)	365.0	100	4026.3+z	(24$^+$)	D	
		704.1	123 *16*	3687.3+z	(23$^+$)	Q	I_γ: weighted average of 148 *27* (1997Gu18) and 110 *20* (1997Ca29).
4584.5+z	J+15	358.2	100	4226.5+z	J+14	D	
		731.6	122 *15*	3852.9+z	J+13	Q	I_γ: weighted average of 140 *24* (1997Gu18) and 110 *20* (1997Ca29).
4634.5+z	(25$^-$)	372.1	100	4262.2+z	(24$^-$)		
		712.6	127 *24*	3921.9+z	(23$^-$)	Q	I_γ: weighted average of 120 *30* (1997Gu18) and 140 *40* (1997Ca29).
4787.2+z	(26$^+$)	395.9	100	4391.4+z	(25$^+$)		
		760.8	107 *20*	4026.3+z	(24$^+$)	Q	I_γ: weighted average of 112 *26* (1997Gu18) and 100 *30* (1997Ca29).
4982.2+z	(26$^-$)	347.6	100	4634.5+z	(25$^-$)	D	
		720.2	132 *21*	4262.2+z	(24$^-$)	Q	I_γ: weighted average of 125 *29* (1997Gu18) and 140 *30* (1997Ca29).
4992.3+z	J+16	407.8	100	4584.5+z	J+15	D	
		765.7	137 *20*	4226.5+z	J+14	Q	I_γ: weighted average of 142 *26* (1997Gu18) and 130 *30* (1997Ca29).
5190.2+z	(27$^+$)	402.9	100	4787.2+z	(26$^+$)		
		798.7	2.4×10^2 *4*	4391.4+z	(25$^+$)		I_γ: weighted average of 190 *50* (1997Gu18) and 290 *50* (1997Ca29).
5379.8+z	(27$^-$)	397.5	100	4982.2+z	(26$^-$)	D	
		745.3	1.3×10^2 *3*	4634.5+z	(25$^-$)		I_γ: weighted average of 140 *40* (1997Gu18) and 110 *40* (1997Ca29).
5400.0+z	J+17	407.7	100	4992.3+z	J+16	D	
		815.8	1.6×10^2 *3*	4584.5+z	J+15		I_γ: weighted average of 200 *50* (1997Gu18) and 140 *30* (1997Ca29).
5631.3+z	(28$^+$)	441.0	52 *26*	5190.2+z	(27$^+$)		
		844.3	100 *22*	4787.2+z	(26$^+$)		

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Adopted Levels, Gammas (continued)

γ(^{162}Lu) (continued)

E_i(level)	J_i^π	E_γ	I_γ[†]	E_f	J_f^π	Mult.	Comments
5751.2+z	(28$^-$)	371.6	100	5379.8+z	(27$^-$)		
		769.2	1.4×10^2 *3*	4982.2+z	(26$^-$)		I_γ: weighted average of 150 *50* (1997Gu18) and 130 *40* (1997Ca29).
5835.4+z	J+18	435.7	100 *20*	5400.0+z	J+17		E_γ: from 1997Ca29. 1997Gu18 report Eγ=434.4.
		842.8	100 *22*	4992.3+z	J+16	Q	
6074.2+z	(29$^+$)	443.0	100	5631.3+z	(28$^+$)		
		883.9	1.5×10^2 *4*	5190.2+z	(27$^+$)		I_γ: from 1997Ca29.
6185.4+z	(29$^-$)	434.7	100	5751.2+z	(28$^-$)		
		805.0	1.4×10^2 *5*	5379.8+z	(27$^-$)		I_γ: from 1997Ca29.
6290.7+z	J+19	454.4	100	5835.4+z	J+18		
		889.4	1.2×10^2 *4*	5400.0+z	J+17		
6554.9+z?	(30$^+$)	922.7[#]	100	5631.3+z	(28$^+$)		
6750.9+z?	J+20	460.2[#]		6290.7+z	J+19		
		915.9[#]		5835.4+z	J+18		
7244.5+z?	J+21	494[#]		6750.9+z?	J+20		
		953.8[#]		6290.7+z	J+19		
508.0+u	J1+2	508.0		u	J1		
1072.2+u	J1+4	564.2		508.0+u	J1+2		
1699.2+u	J1+6	627.0		1072.2+u	J1+4		
2388.5+u	J1+8	689.3		1699.2+u	J1+6		
3139.6+u	J1+10	751.1		2388.5+u	J1+8		
3950.6+u	J1+12	811.0		3139.6+u	J1+10		
4819.4+u	J1+14	868.8		3950.6+u	J1+12		
5742.3+u	J1+16	922.9		4819.4+u	J1+14		
6720.0+u	J1+18	977.7		5742.3+u	J1+16		
7747.7+u	J1+20	1027.7		6720.0+u	J1+18		
420.4+v	J2+2	420.4		v	J2		
906.1+v	J2+4	485.7		420.4+v	J2+2		
1455.4+v	J2+6	549.3		906.1+v	J2+4		
2066.6+v	J2+8	611.2		1455.4+v	J2+6		
2738.0+v	J2+10	671.4		2066.6+v	J2+8		
3467.9+v	J2+12	729.9		2738.0+v	J2+10		
4254.6+v	J2+14	786.7		3467.9+v	J2+12		
5096.4+v	J2+16	841.8		4254.6+v	J2+14		
5992+v	J2+18	896		5096.4+v	J2+16		
6943+v	J2+20	951.2		5992+v	J2+18		
7946+v	J2+22	1002.5		6943+v	J2+20		
578.3+w	J3+2	578.3		w	J3		
1217.1+w	J3+4	638.8		578.3+w	J3+2		
1916.3+w	J3+6	699.2		1217.1+w	J3+4		
2674.2+w	J3+8	757.9		1916.3+w	J3+6		
3490.0+w	J3+10	815.8		2674.2+w	J3+8		
4360.0+w	J3+12	870.0		3490.0+w	J3+10		
5281.6+w	J3+14	921.6		4360.0+w	J3+12		
6246.8+w	J3+16	965.2		5281.6+w	J3+14		
7247.6+w	J3+18	1000.8		6246.8+w	J3+16		
8283.1+w	J3+20	1035.5		7247.6+w	J3+18		
9344.6+w	J3+22	1061.5		8283.1+w	J3+20		

[†] For the gammas involving the "high-spin" levels, the values with listed uncertainties represent the γ branching from the levels as reported in various (HI,xnγ) studies. See the (HI,xnγ) data set for details.
[‡] Additional information 2.
[#] Placement of transition in the level scheme is uncertain.

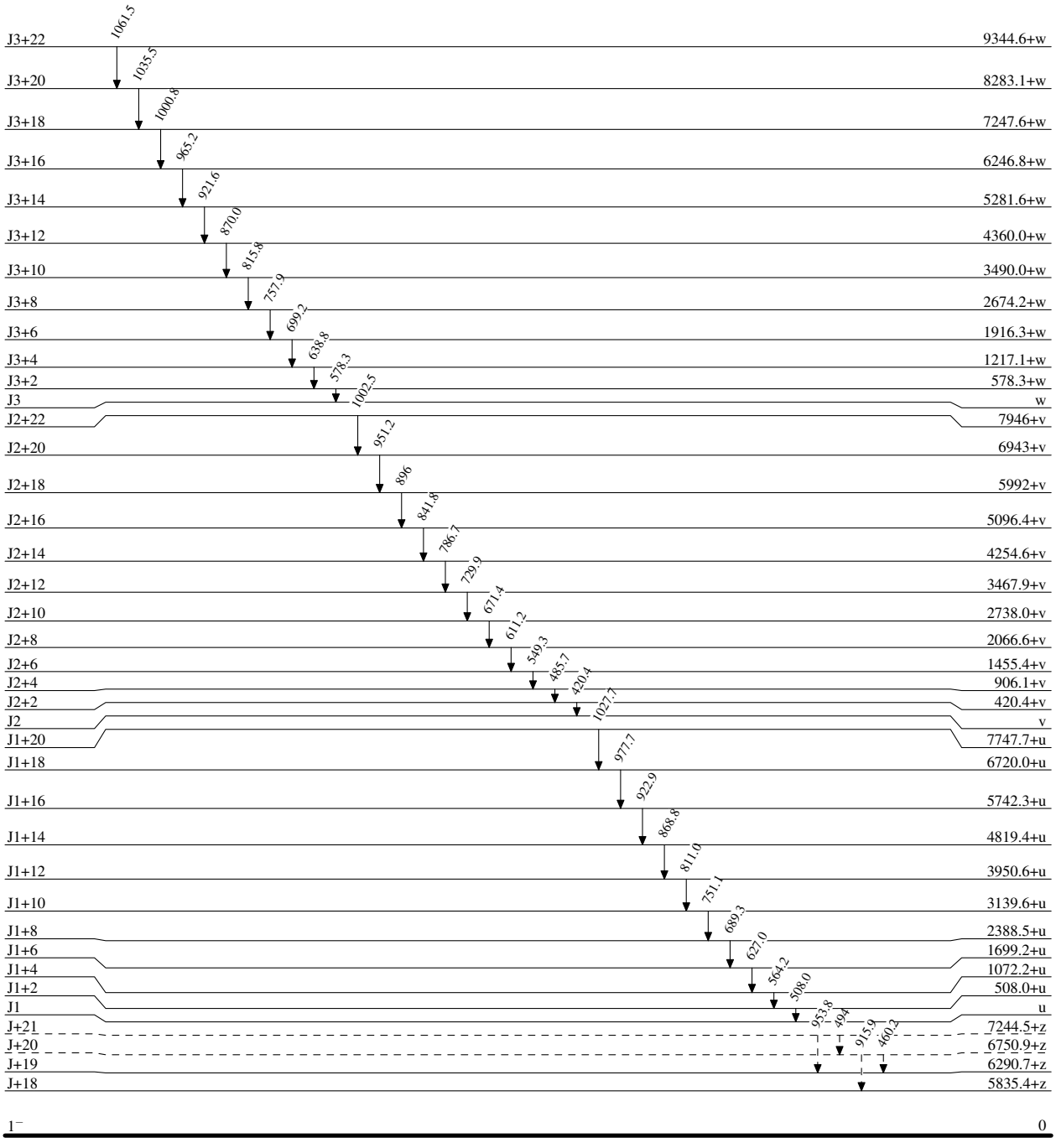
Adopted Levels, Gammas

Legend

Level Scheme

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



$^{162}_{71}Lu_{91}$

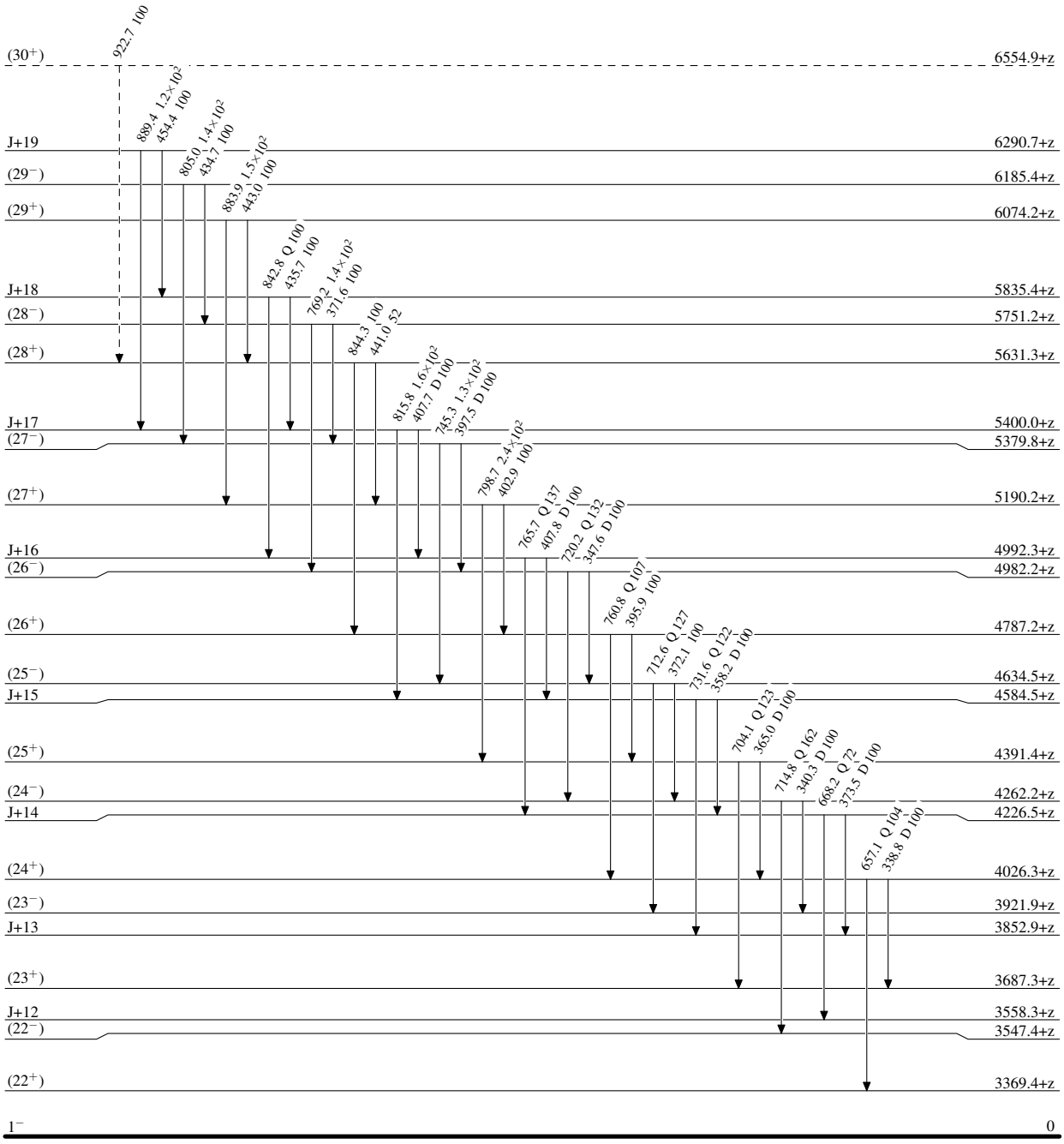
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)

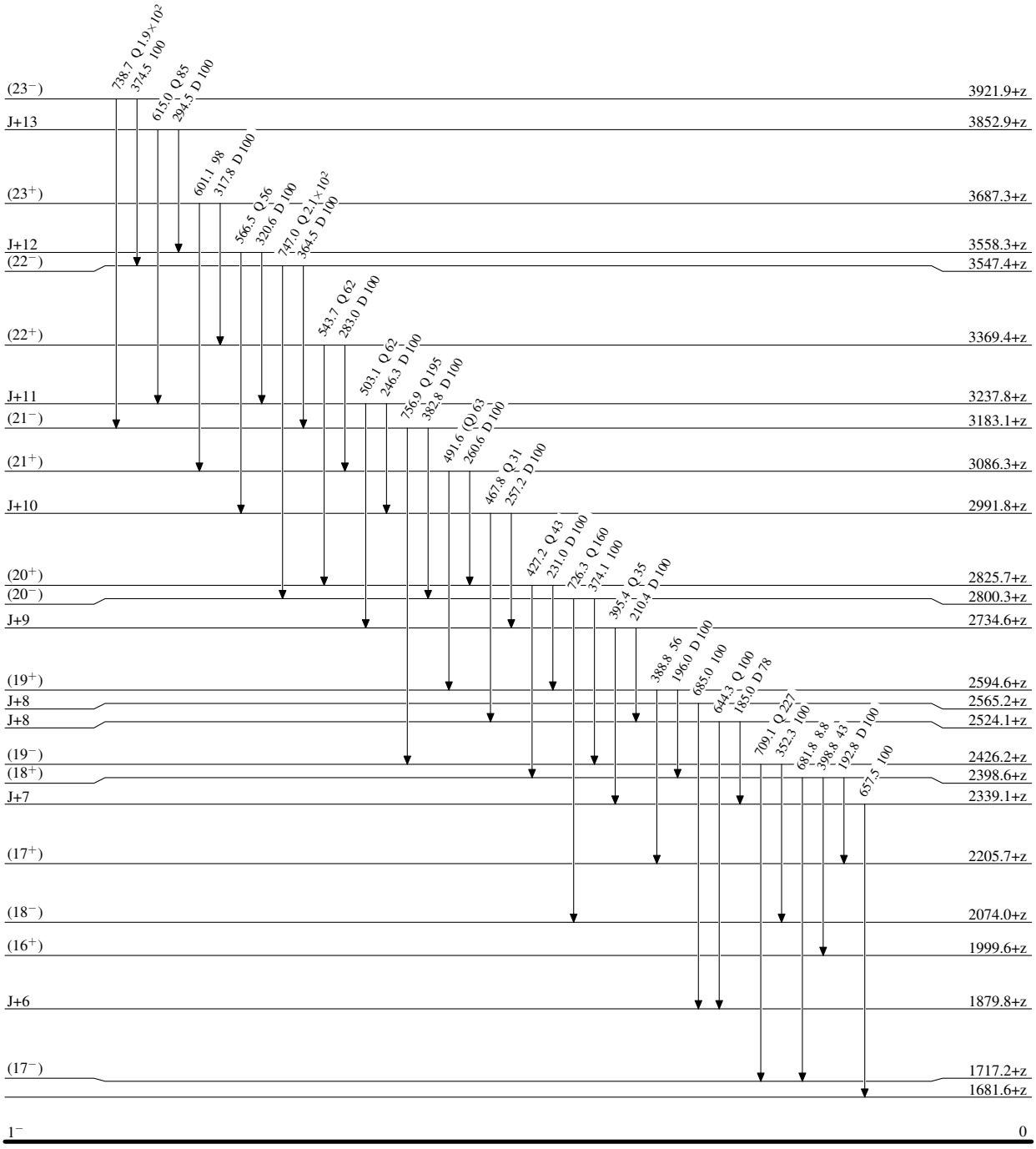


$^{162}_{71}Lu_{91}$

Adopted Levels, Gammas

Level Scheme (continued)

Intensities: Relative photon branching from each level



$^{162}_{71}Lu_{91}$

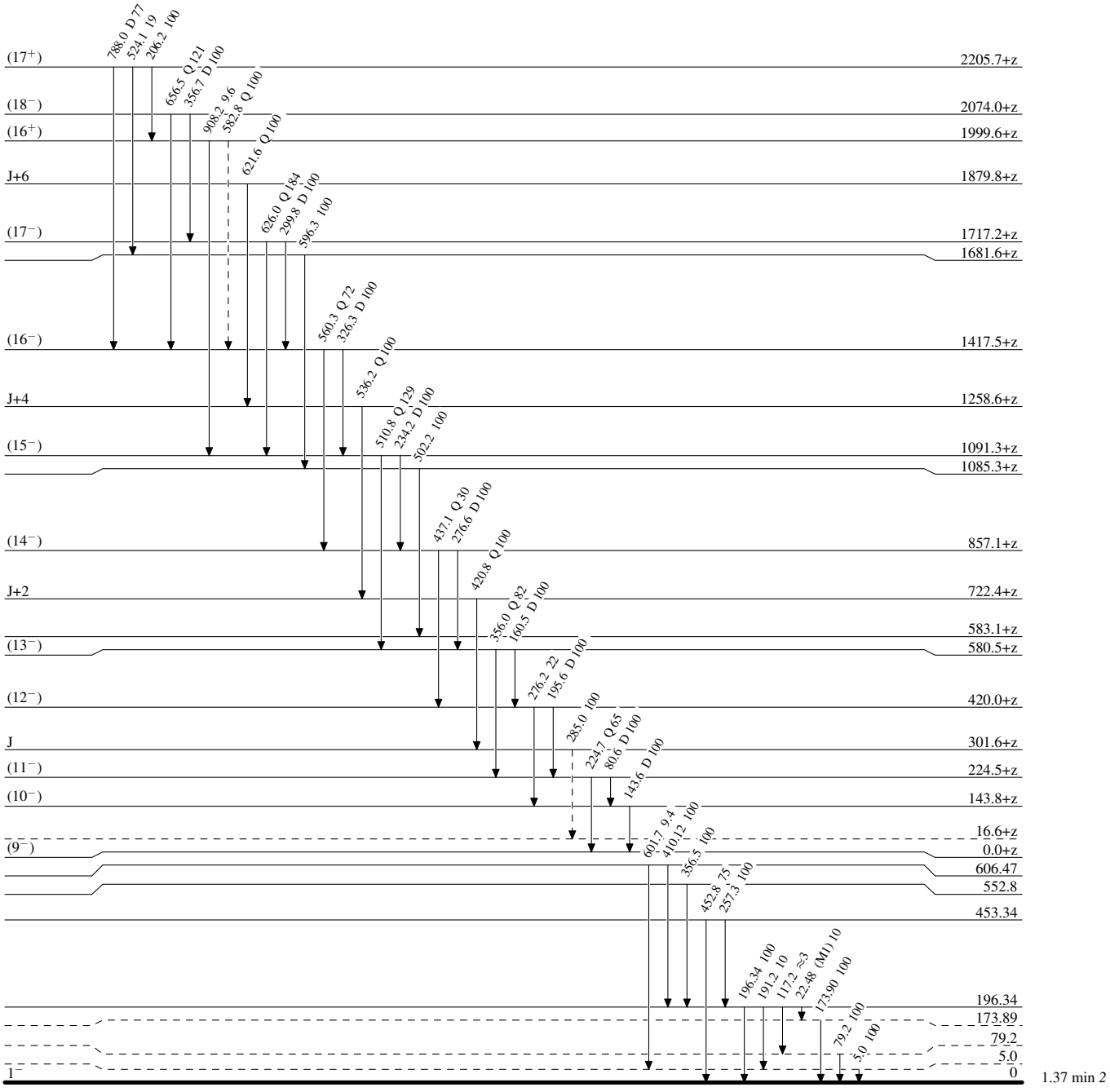
Adopted Levels, Gammas

Legend

Level Scheme (continued)

Intensities: Relative photon branching from each level

γ Decay (Uncertain)



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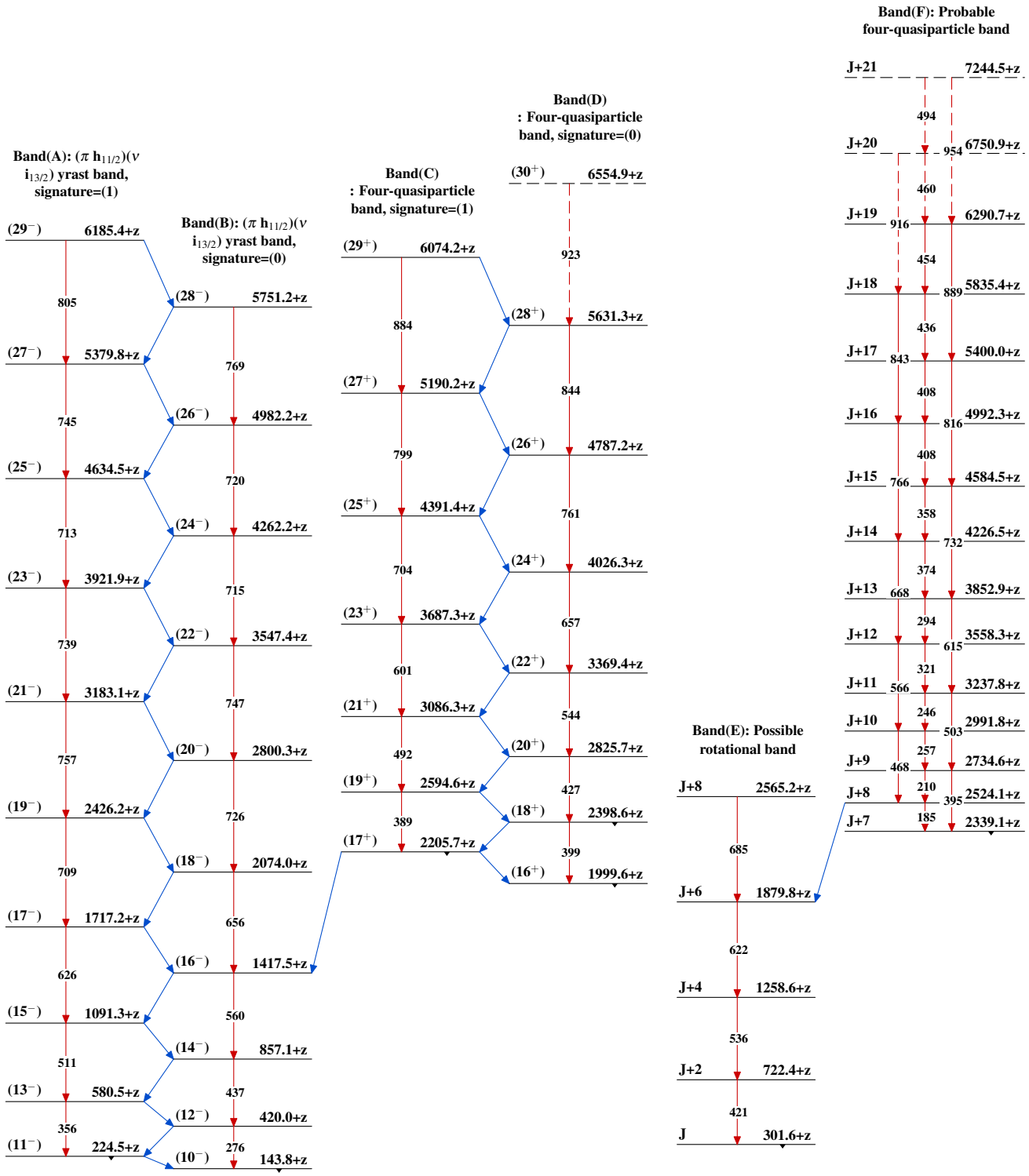
Adopted Levels, Gammas



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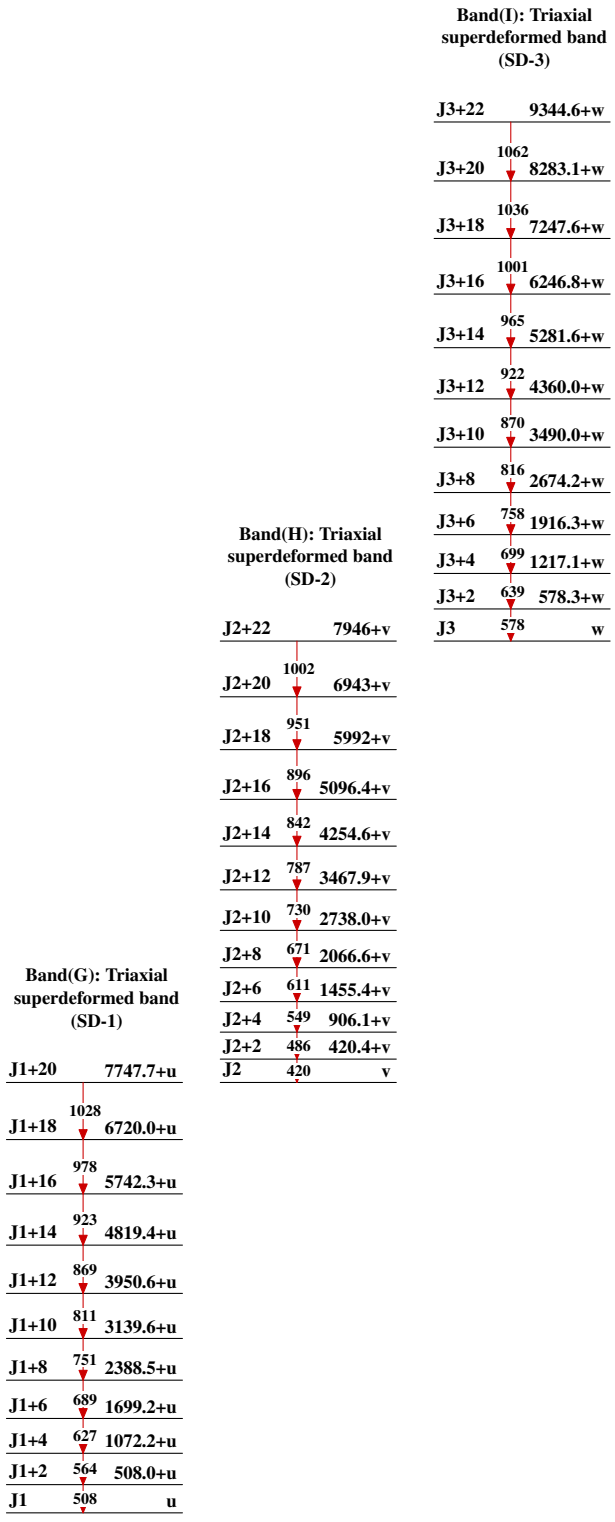
Adopted Levels, Gammas (continued)



$^{162}_{71}Lu_{91}$