$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Janos Timar and Zoltan Elekes, Balraj Singh	NDS 121, 143 (2014)	31-May-2014

Includes $^{98}Mo(^{36}S,p4n\gamma)$ from 1985Sm07.
1992He03: $^{51}V(^{82}Se,4n\gamma)$ E=67, 290 MeV; Ge γ, $\gamma\gamma$-coin, $\gamma\gamma(\theta)$.
2000Wa28: $^{100}Mo(^{34}S,p4n\gamma)$, E=155 MeV. Measured E$\gamma$ and $\gamma\gamma$ using EUROBALL-2 spectrometer. Details of γ-ray data are not given in this paper.
1985Sm07: $^{98}Mo(^{36}S,p4n\gamma)$ E=155 MeV; Ge, $\gamma\gamma$-coin, $\gamma\gamma(\theta)$.

^{129}La Levels

Level scheme is mainly from 1992He03. Several higher spin levels are from 2000Wa28. J^π assignment on the basis of γ multipolarities deduced from DCO ratios. Configurations on the basis of CSM analysis, systematics of neighboring nuclei and Total Routhian Surface calculations.

E(level)[#]	J^π[†]	$T_{1/2}$[‡]	E(level)[#]	J^π[†]	E(level)[#]	J^π[†]
0.0[b]	$3/2^+$		2787.9 *9*	$(23/2^+)$	5473.0[&] *8*	$39/2^+$
67.5[c] *3*	$5/2^+$		2788.9+x[d] *14*	$(25/2^+)$	5503.8[g] *12*	$(37/2^+)$
172.1[@] *4*	$11/2^-$	0.56 s *5*	2821.2[f] *9*	$(23/2^+)$	5557.9+x[e] *15*	$(39/2^+)$
247.6[b] *3*	$7/2^+$		2839.0[b] *7*	$23/2^+$	5931.0[f] *12*	$(39/2^+)$
440.9[@] *4*	$15/2^-$	90 ps *4*	2907.0[a] *6*	$25/2^+$	6060.5[a] *14*	$41/2^+$
445.1[c] *3*	$9/2^+$		3014.8[&] *6*	$27/2^+$	6086.1+x[d] *16*	$(41/2^+)$
694.7[b] *4*	$11/2^+$		3065.6+x[e] *14*	$(27/2^+)$	6335.0?[g] *13*	$(41/2^+)$
915.0[@] *5*	$19/2^-$	6.0 ps *9*	3093.7[g] *9*	$(25/2^+)$	6484.3[&] *9*	$43/2^+$
1019.8[c] *4*	$13/2^+$		3251.1[@] *6*	$31/2^-$	6512.8[@] *11*	$43/2^-$
1313.7[b] *4*	$15/2^+$		3388.3+x[d] *15*	$(29/2^+)$	6632.2+x[e] *16*	$(43/2^+)$
1556.0[@] *5*	$23/2^-$		3418.2[f] *10*	$(27/2^+)$	6754.0?[f] *13*	$(43/2^+)$
1722.3 *7*			3473.3[a] *6*	$29/2^+$	7129.5[a] *17*	$45/2^+$
1947.9 *10*			3728.7[&] *6*	$31/2^+$	7561.7[&] *11*	$47/2^+$
1983.0[&] *5*	$19/2^+$		3753.5+x[e] *15*	$(31/2^+)$	7671.8[@] *15*	$47/2^-$
2068.1[b] *6*	$19/2^+$		3780.6[g] *10*	$(29/2^+)$	8238.5[a] *20*	$49/2^+$
2217.4[d] *5*	$(13/2^+)$		4153.1+x[d] *15*	$(33/2^+)$	8653.9[&] *12*	$51/2^+$
2239.3 *9*			4173.9[f] *10*	$(31/2^+)$	8853.8[@] *18*	$51/2^-$
2239.3+x[d] *13*	$(17/2^+)$		4195.0[a] *7*	$33/2^+$	9421.5[a] *22*	$53/2^+$
2293.9+x[e] *14*	$(19/2^+)$		4264.1[@] *8*	$35/2^-$	9769.2[&] *14*	$(55/2^+)$
2340.8[@] *6*	$27/2^-$		4551.7[&] *7*	$35/2^+$	10082.8[@] *21*	$55/2^-$
2351.7[f] *9*	$(19/2^+)$		4591.9+x[e] *15*	$(35/2^+)$	10949.2[&] *17*	$59/2^+$
2404.0+x[d] *14*	$(21/2^+)$		4599.0[g] *11*	$(33/2^+)$	11377.8[@] *23*	$59/2^-$
2429.0[&] *5*	$23/2^+$		5043.4[f] *12*	$(35/2^+)$	12193.2[&] *20*	$63/2^+$
2476.0[a] *7*	$21/2^+$		5054.5+x[d] *15*	$(37/2^+)$	13499.2[&] *22*	$67/2^+$
2567.9[g] *9*	$(21/2^+)$		5077.5[a] *9*	$37/2^+$	14917.2[&] *24*	$71/2^+$
2567.9+x[e] *14*	$(23/2^+)$		5358.1[@] *10*	$39/2^-$	16474[&] *3*	$75/2^+$

[†] As assigned in 992He03 and 2000Wa28 based on $\gamma\gamma(\theta)$(DCO) data and band structures. All assignments are given in parentheses in Adopted Levels since strong supporting arguments for the lower levels (or bandheads) are lacking.
[‡] From Adopted Levels.
[#] From least-squares fit to the Eγ data.

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$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28 (continued)

^{129}La Levels (continued)

@ Band(A): $\pi 1/2[550],\alpha=-1/2$.
& Band(B): $\pi 3/2[422]\otimes\pi h^2_{11/2},\alpha=-1/2$.
a Band(C): $\pi 3/2[422]\otimes\pi h^2_{11/2},\alpha=+1/2$.
b Band(D): $\pi(3/2[422]+1/2[420]),\alpha=-1/2$. Strongly coupled one-quasiproton band with admixture of of 3/2[422] and 1/2[420] proton configurations.
c Band(E): $\pi(3/2[422]+\pi 1/2[420]),\alpha=+1/2$. Strongly coupled one-quasiproton band with admixture of of 3/2[422] and 1/2[420] proton configurations.
d Band(F): $\pi 1/2[550]\otimes\nu 7/2[523]\otimes\nu 5/2[402],\alpha=+1/2$.
e Band(G): $\pi 1/2[550]\otimes\nu 7/2[523]\otimes\nu 5/2[402],\alpha=-1/2$.
f Band(H): $\pi 1/2[550]\otimes\nu 7/2[523]\otimes\nu 5/2[402],\alpha=-1/2$.
g Band(I): $\pi 1/2[550]\otimes\nu 7/2[523]\otimes\nu 5/2[402],\alpha=+1/2$.

$\gamma(^{129}La)$

DCO data are from 1992He03.

E_γ †	I_γ †	E_i(level)	J^π_i	E_f	J^π_f	Mult. ‡	α &	Comments
55.6 *3*		2293.9+x	$(19/2^+)$	2239.3+x	$(17/2^+)$			
67.7 *3*		67.5	$5/2^+$	0.0	$3/2^+$	M1	3.32 *7*	α(K)=2.84 *6*; α(L)=0.386 *8*; α(M)=0.0803 *16* α(N)=0.0177 *4*; α(O)=0.00287 *6*; α(P)=0.000221 *5*
104.8 *3*		172.1	$11/2^-$	67.5	$5/2^+$	E3	20.0 *4*	α(K)=5.12 *9*; α(L)=11.54 *25*; α(M)=2.67 *6* α(N)=0.566 *13*; α(O)=0.0782 *17*; α(P)=0.000256 *5* E_γ: from 1973Le09. $\Delta E\gamma$ estimated by the evaluators.
110.1 *3*	15.2# *10*	2404.0+x	$(21/2^+)$	2293.9+x	$(19/2^+)$	(M1+E2)	0.871 *15*	DCO=0.84 *8* Additional information 7.
163.9 *3*	23.3# *16*	2567.9+x	$(23/2^+)$	2404.0+x	$(21/2^+)$	(M1+E2)	0.276 *5*	DCO=0.95 *5* Additional information 9.
179.9 *3*	10.6# *8*	247.6	$7/2^+$	67.5	$5/2^+$	(M1)	0.209	α(K)=0.178 *3*; α(L)=0.0239 *4*; α(M)=0.00497 *8*; α(N)=0.001092 *17*; α(O)=0.000178 *3* α(P)=1.387×10^{-5} *21* DCO=1.05 *4* Additional information 1.
197.4 *3*	5.0# *7*	445.1	$9/2^+$	247.6	$7/2^+$	(M1)	0.1619	α(K)=0.1385 *21*; α(L)=0.0185 *3*; α(M)=0.00385 *6*; α(N)=0.000846 *13*; α(O)=0.0001376 *21* α(P)=1.075×10^{-5} *16* DCO=1.01 *2* Additional information 4.
216.2 *4*	0.9# *2*	2567.9	$(21/2^+)$	2351.7	$(19/2^+)$	(M1+E2)	0.127 *2*	DCO=0.84 *7* Additional information 8.

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$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28 (continued)

$\gamma(^{129}La)$ (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	α[&]	Comments
220.9 *3*	25.1[#] *18*	2788.9+x	(25/2$^+$)	2567.9+x	(23/2$^+$)	(M1+E2)	0.120 *2*	DCO=0.82 *3* Additional information 10.
247.3 *4*	1.6[#] *4*	247.6	7/2$^+$	0.0	3/2$^+$	[E2]		Additional information 2.
249.5 *4*	2.9[#] *7*	694.7	11/2$^+$	445.1	9/2$^+$	D		DCO=1.03 *3* Additional information 5.
253.4 *4*	0.9[#] *2*	2821.2	(23/2$^+$)	2567.9	(21/2$^+$)	(M1+E2)	0.0825 *12*	DCO=0.83 *4* Additional information 11.
269.0 *3*	97.3	440.9	15/2$^-$	172.1	11/2$^-$	E2	0.0666	α(K)=0.0532 *8*; α(L)=0.01054 *16*; α(M)=0.00225 *4* α(N)=0.000486 *7*; α(O)=7.39×10^{-5} *11*; α(P)=3.49×10^{-6} *5* DCO=1.31 *4* Additional information 3.
272.4 *4*	1.4[#] *3*	3093.7	(25/2$^+$)	2821.2	(23/2$^+$)	(M1+E2)	0.0678 *10*	DCO=0.92 *6* Additional information 13.
276.6 *3*	21.5[#] *20*	3065.6+x	(27/2$^+$)	2788.9+x	(25/2$^+$)	(M1+E2)	0.0651 *10*	DCO=0.92 *3* Additional information 12.
293.8 *4*	0.6[#] *2*	1313.7	15/2$^+$	1019.8	13/2$^+$			Additional information 6.
305.8 *4*	1.9 *3*	3093.7	(25/2$^+$)	2787.9	(23/2$^+$)	(M1+E2)	0.0498 *7*	DCO=0.88 *5*
322.6 *4*	18.6 *18*	3388.3+x	(29/2$^+$)	3065.6+x	(27/2$^+$)	(M1+E2)	0.0432 *7*	DCO=0.85 *5*
324.5 *5*	4.3 *7*	3418.2	(27/2$^+$)	3093.7	(25/2$^+$)	(M1+E2)	0.0425 *6*	α(K)=0.033 *4*; α(L)=0.0051 *3*; α(M)=0.00108 *7* α(N)=0.000235 *14*; α(O)=3.71×10^{-5} *12*; α(P)=2.4×10^{-6} *5* DCO=0.87 *5*
325.1 *4*	1.2 *4*	1019.8	13/2$^+$	694.7	11/2$^+$	(M1+E2)	0.0423 *6*	DCO=0.88 *5*
362.3 *5*	2.8 *5*	3780.6	(29/2$^+$)	3418.2	(27/2$^+$)	(M1+E2)	0.0319 *5*	DCO=0.70 *8*
365.0 *3*	12.2 *13*	3753.5+x	(31/2$^+$)	3388.3+x	(29/2$^+$)	(M1+E2)	0.0312 *5*	DCO=0.82 *5*
377.6 *3*	6.8 *8*	445.1	9/2$^+$	67.5	5/2$^+$	(E2)		DCO=1.35 *2*
385.0 *5*	1.5 *3*	2788.9+x	(25/2$^+$)	2404.0+x	(21/2$^+$)			
393.2 *5*	2.5 *4*	4173.9	(31/2$^+$)	3780.6	(29/2$^+$)	(M1+E2)	0.0258 *4*	DCO=0.69 *7*
399.4 *3*	8.7 *8*	4153.1+x	(33/2$^+$)	3753.5+x	(31/2$^+$)	(M1+E2)	0.0247 *4*	DCO=0.96 *5*
404.0 *6*	1.2 *2*	6335.0?	(41/2$^+$)	5931.0	(39/2$^+$)			
418.9 *6*	1.2 *2*	6754.0?	(43/2$^+$)	6335.0?	(41/2$^+$)			
425.2 *6*	1.8 *4*	4599.0	(33/2$^+$)	4173.9	(31/2$^+$)			
427.4 *6*	1.3 *3*	5931.0	(39/2$^+$)	5503.8	(37/2$^+$)			
430.9 *6*	3.3 *7*	2907.0	25/2$^+$	2476.0	21/2$^+$			
438.7 *3*	7.9 *7*	4591.9+x	(35/2$^+$)	4153.1+x	(33/2$^+$)			
444.6 *6*	1.6 *3*	5043.4	(35/2$^+$)	4599.0	(33/2$^+$)			
445.8 *3*	12.1 *15*	2429.0	23/2$^+$	1983.0	19/2$^+$	Q		DCO=1.49 *3*
446.9 *4*	8.7 *14*	694.7	11/2$^+$	247.6	7/2$^+$			
458.4 *4*	8.0 *15*	3473.3	29/2$^+$	3014.8	27/2$^+$	D		DCO=1.10 *4*
460.6 *6*	1.4 *3*	5503.8	(37/2$^+$)	5043.4	(35/2$^+$)			
462.5 *4*	4.4 *5*	5054.5+x	(37/2$^+$)	4591.9+x	(35/2$^+$)			
466.3 *5*	2.2 *5*	4195.0	33/2$^+$	3728.7	31/2$^+$	D		DCO=0.90 *3*
474.3 *3*	82.8 *30*	915.0	19/2$^-$	440.9	15/2$^-$	E2	0.01193	α(K)=0.00997 *14*; α(L)=0.001556 *22*;

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$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28 (continued)

$\gamma(^{129}La)$ (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	α[&]	Comments
								α(M)=0.000327 *5* α(N)=7.12×10^{-5} *10*; α(O)=1.120×10^{-5} *16*; α(P)=7.04×10^{-7} *10* DCO=1.31 *4*
478.0 *5*	5.2 *11*	2907.0	25/2$^+$	2429.0	23/2$^+$	(M1+E2)	0.0156	DCO=0.78 *3*
492.9 *6*	1.7 *5*	2476.0	21/2$^+$	1983.0	19/2$^+$			
498.0 *4*	2.6 *3*	3065.6+x	(27/2$^+$)	2567.9+x	(23/2$^+$)			
502.9 *5*	2.5 *4*	5557.9+x	(39/2$^+$)	5054.5+x	(37/2$^+$)			
517.0 *5*	2.1 *4*	2239.3		1722.3				
528.0 *6*	1.8 *4*	6086.1+x	(41/2$^+$)	5557.9+x	(39/2$^+$)			
546.1 *6*	1.6 *4*	6632.2+x	(43/2$^+$)	6086.1+x	(41/2$^+$)			
566.3[a] *5*	10.3[a] *22*	2907.0	25/2$^+$	2340.8	27/2$^-$			
566.3[a] *5*	6.8[a] *17*	3473.3	29/2$^+$	2907.0	25/2$^+$			
574.6 *3*	9.1 *15*	1019.8	13/2$^+$	445.1	9/2$^+$	Q		DCO=1.45 *4*
585.8 *3*	21.6 *25*	3014.8	27/2$^+$	2429.0	23/2$^+$	Q		DCO=1.47 *3*
599.4 *4*	4.7 *6*	3388.3+x	(29/2$^+$)	2788.9+x	(25/2$^+$)			
618.8 *4*	8.3 *16*	1313.7	15/2$^+$	694.7	11/2$^+$			DCO=1.28 *5*
641.1 *3*	71.7 *40*	1556.0	23/2$^-$	915.0	19/2$^-$	Q		DCO=1.42 *7*
669.0 *5*	3.3 *8*	1983.0	19/2$^+$	1313.7	15/2$^+$			DCO=1.15 *7*
674.2 *5*	5.1 *7*	3014.8	27/2$^+$	2340.8	27/2$^-$	D		DCO=1.60 *15*
687.0 *7*	2.7 *5*	3780.6	(29/2$^+$)	3093.7	(25/2$^+$)			
687.9 *3*	5.1 *6*	3753.5+x	(31/2$^+$)	3065.6+x	(27/2$^+$)			
713.9 *3*	19.0 *22*	3728.7	31/2$^+$	3014.8	27/2$^+$	Q		DCO=1.54 *5*
721.7 *5*	6.7 *11*	4195.0	33/2$^+$	3473.3	29/2$^+$	Q		DCO=1.38 *4*
754.4 *4*	3.7 *9*	2068.1	19/2$^+$	1313.7	15/2$^+$	Q		DCO=1.46 *7*
755.8 *7*	1.9 *4*	4173.9	(31/2$^+$)	3418.2	(27/2$^+$)			
764.9 *3*	5.5 *7*	4153.1+x	(33/2$^+$)	3388.3+x	(29/2$^+$)			
770.9 *4*	2.8 *7*	2839.0	23/2$^+$	2068.1	19/2$^+$	Q		DCO=1.65 *4*
784.9 *3*	45.3 *40*	2340.8	27/2$^-$	1556.0	23/2$^-$	Q		DCO=1.41 *7*
818.4 *8*	1.6 *3*	4599.0	(33/2$^+$)	3780.6	(29/2$^+$)			
823.0 *3*	15.4 *20*	4551.7	35/2$^+$	3728.7	31/2$^+$	Q		DCO=1.53 *5*
823.0[b] *3*		6754.0?	(43/2$^+$)	5931.0	(39/2$^+$)			
831[b]		6335.0?	(41/2$^+$)	5503.8	(37/2$^+$)			
838.4 *4*	5.7 *8*	4591.9+x	(35/2$^+$)	3753.5+x	(31/2$^+$)			
840.0 *6*	1.3 *3*	2787.9	(23/2$^+$)	1947.9				
869.5 *8*	1.6 *3*	5043.4	(35/2$^+$)	4173.9	(31/2$^+$)			
873.1 *3*	19.4 *22*	2429.0	23/2$^+$	1556.0	23/2$^-$	D		DCO=1.45 *5*
882.5 *6*	2.4 *8*	5077.5	37/2$^+$	4195.0	33/2$^+$	Q		DCO=1.38 *4*
887.5 *7*	1.5 *3*	5931.0	(39/2$^+$)	5043.4	(35/2$^+$)			
901.6 *5*	5.6 *8*	5054.5+x	(37/2$^+$)	4153.1+x	(33/2$^+$)			
904.5 *7*	1.8 *4*	5503.8	(37/2$^+$)	4599.0	(33/2$^+$)			
910.3 *3*	26.8 *20*	3251.1	31/2$^-$	2340.8	27/2$^-$	Q		DCO=1.35 *10*
921.3 *4*	9.7 *13*	5473.0	39/2$^+$	4551.7	35/2$^+$	Q		DCO=1.55 *4*
966.1 *4*	3.6 *7*	5557.9+x	(39/2$^+$)	4591.9+x	(35/2$^+$)			
983[@]		6060.5	41/2$^+$	5077.5	37/2$^+$			
1011.3 *5*	8.1 *11*	6484.3	43/2$^+$	5473.0	39/2$^+$	Q		DCO=1.42 *6*
1013.0 *4*	15.6 *14*	4264.1	35/2$^-$	3251.1	31/2$^-$	Q		DCO=1.34 *4*
1032.1 *7*	1.4 *5*	6086.1+x	(41/2$^+$)	5054.5+x	(37/2$^+$)			
1033.0 *15*	1.3 *4*	1947.9		915.0	19/2$^-$			
1067.8 *5*	7.2 *11*	1983.0	19/2$^+$	915.0	19/2$^-$	D		DCO=1.49 *8*
1069[@]		7129.5	45/2$^+$	6060.5	41/2$^+$			
1074.1 *9*	1.5 *5*	6632.2+x	(43/2$^+$)	5557.9+x	(39/2$^+$)			
1077.4 *5*	4.9 *9*	7561.7	47/2$^+$	6484.3	43/2$^+$	Q		DCO=1.59 *6*
1092.2 *5*	2.9 *6*	8653.9	51/2$^+$	7561.7	47/2$^+$	Q		DCO=1.46 *8*

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$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28 (continued)

$\gamma(^{129}La)$ (continued)

E_γ[†]	I_γ[†]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[‡]	Comments
1094.0 *6*	8.4 *9*	5358.1	$39/2^-$	4264.1	$35/2^-$	Q	DCO=1.56 *6*
1109[@]		8238.5	$49/2^+$	7129.5	$45/2^+$		
1115.2 *7*	2.6 *6*	9769.2	$(55/2^+)$	8653.9	$51/2^+$		
1154.7 *6*	5.5 *9*	6512.8	$43/2^-$	5358.1	$39/2^-$	Q	DCO=1.43 *7*
1159[@]		7671.8	$47/2^-$	6512.8	$43/2^-$		
1180[@]		10949.2	$59/2^+$	9769.2	$(55/2^+)$		
1182[@]		8853.8	$51/2^-$	7671.8	$47/2^-$		
1183[@]		9421.5	$53/2^+$	8238.5	$49/2^+$		
1197.0 *6*	5.8 *10*	2217.4	$(13/2^+)$	1019.8	$13/2^+$	D	DCO=1.06 *5*
1229[@]		10082.8	$55/2^-$	8853.8	$51/2^-$		
1232.0 *15*	0.5 *2*	2787.9	$(23/2^+)$	1556.0	$23/2^-$		
1244[@]		12193.2	$63/2^+$	10949.2	$59/2^+$		
1265 *1*	0.5 *2*	2821.2	$(23/2^+)$	1556.0	$23/2^-$		
1281.4 *6*	3.1 *5*	1722.3		440.9	$15/2^-$		
1295[@b]		11377.8	$59/2^-$	10082.8	$55/2^-$		
1306[@]		13499.2	$67/2^+$	12193.2	$63/2^+$		
1418[@]		14917.2	$71/2^+$	13499.2	$67/2^+$		
1437.0 *15*	1.1 *3*	2351.7	$(19/2^+)$	915.0	$19/2^-$		
1557[@]		16474	$75/2^+$	14917.2	$71/2^+$		
1772.3 *9*	2.6 *10*	2217.4	$(13/2^+)$	445.1	$9/2^+$		
1777.4 *8*	2.3 *10*	2217.4	$(13/2^+)$	440.9	$15/2^-$		

[†] From 1992He03, unless otherwise noted.
[‡] From 1992He03 based on DCO ratios I(35°−35°)/I(90°−35°) gated by a known stretched E2 transition. Assigned to be stretched Q or unstretched dipole for DCO-ratio>1.3 and stretched d for DCO-ratio<1.1. 1992He03 suggest possible M1+E2 mixing for much smaller DCO. Evaluators regard DCO-ratio<1.0 as (M1+E2).
[#] Deduced by evaluators from I(γ+ce) given by 1992He03 under the authors′ assumption that $\delta\approx0$ for mixed transitions. For γ rays with Eγ>300 keV, conversion coefficient is considered negligible, thus Iγ value is the same as listed in 1992He03.
[@] From 2000Wa28 above the energy region covered in 1992He03.
[&] δ(E2/M1)=0.3 assumed when δ not listed.
[a] Multiply placed with intensity suitably divided.
[b] Placement of transition in the level scheme is uncertain.

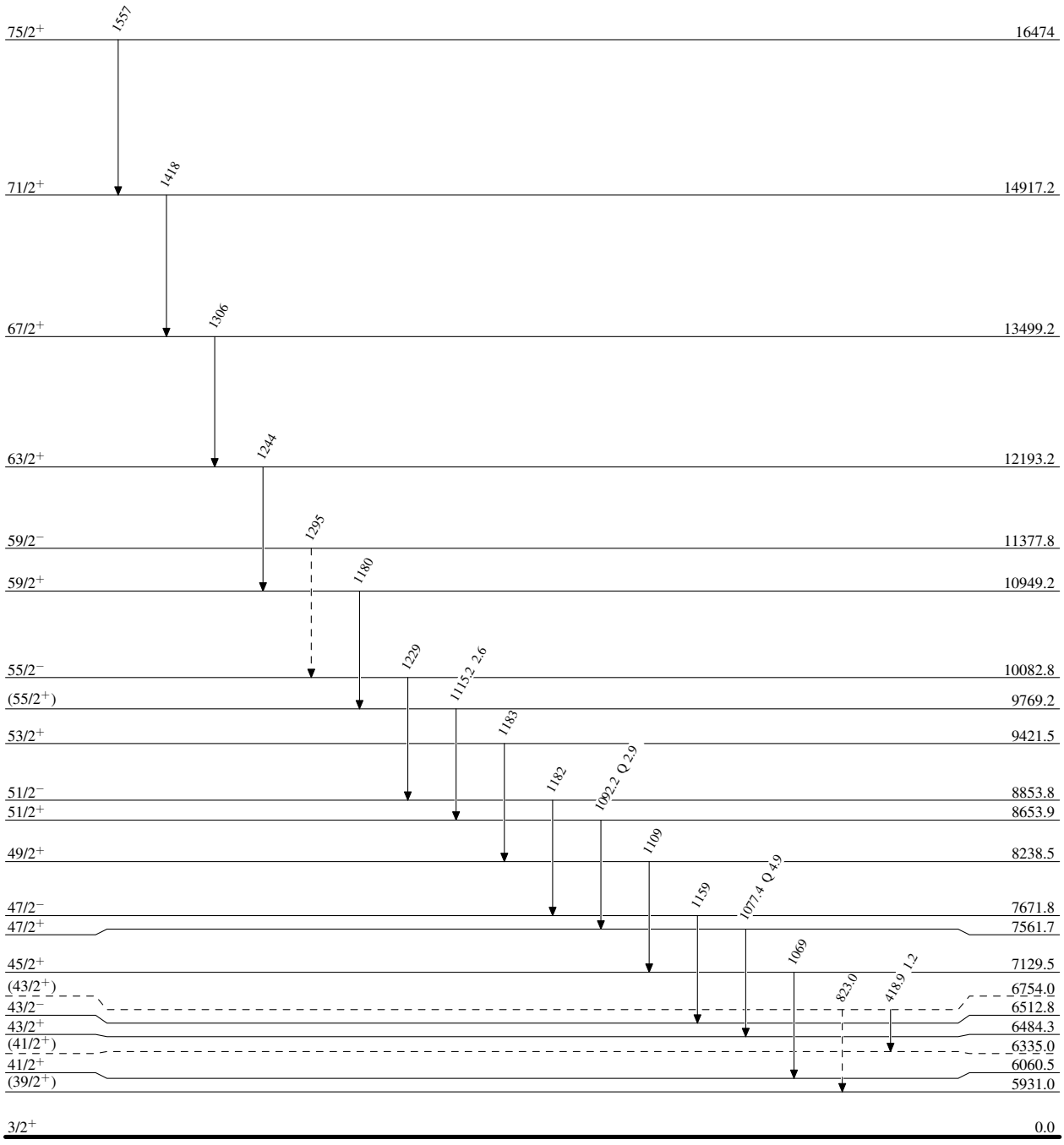
$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28

Level Scheme

Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{129}_{57}La_{72}$

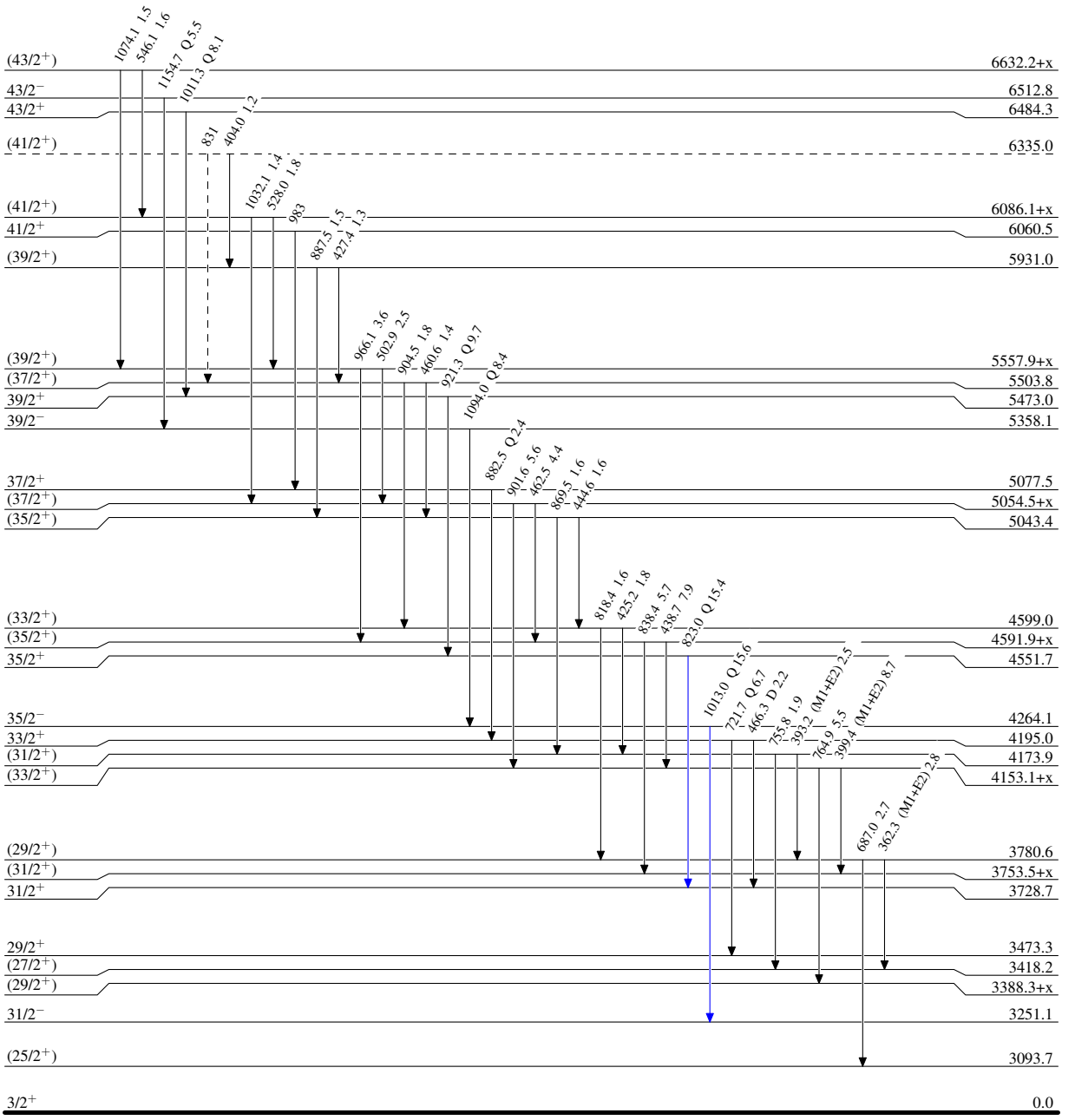
$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)

Level Scheme (continued)

Intensities: Relative I_γ



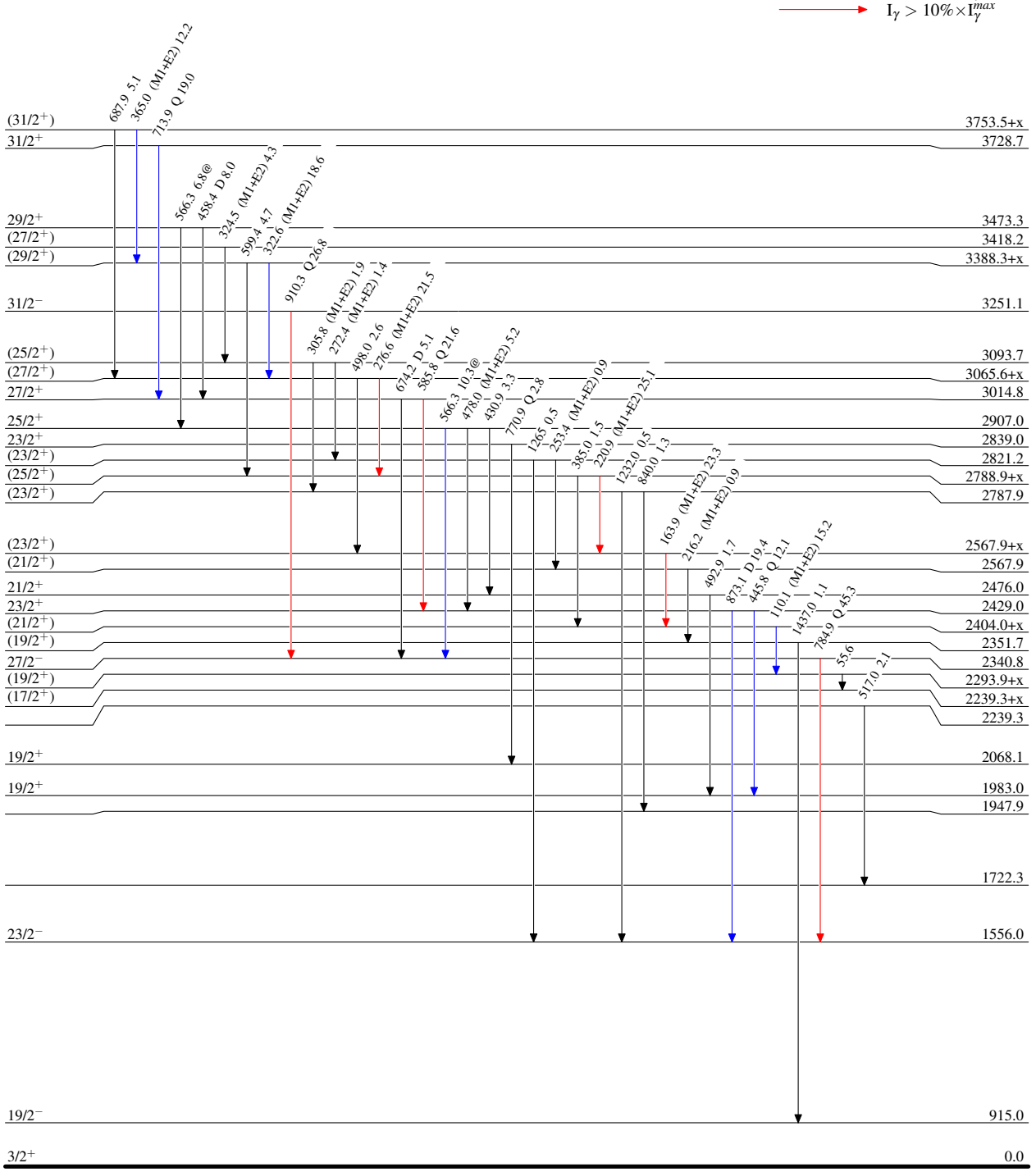
$^{129}_{57}La_{72}$

$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28

Level Scheme (continued)

Intensities: Relative I_γ
@ Multiply placed: intensity suitably divided

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



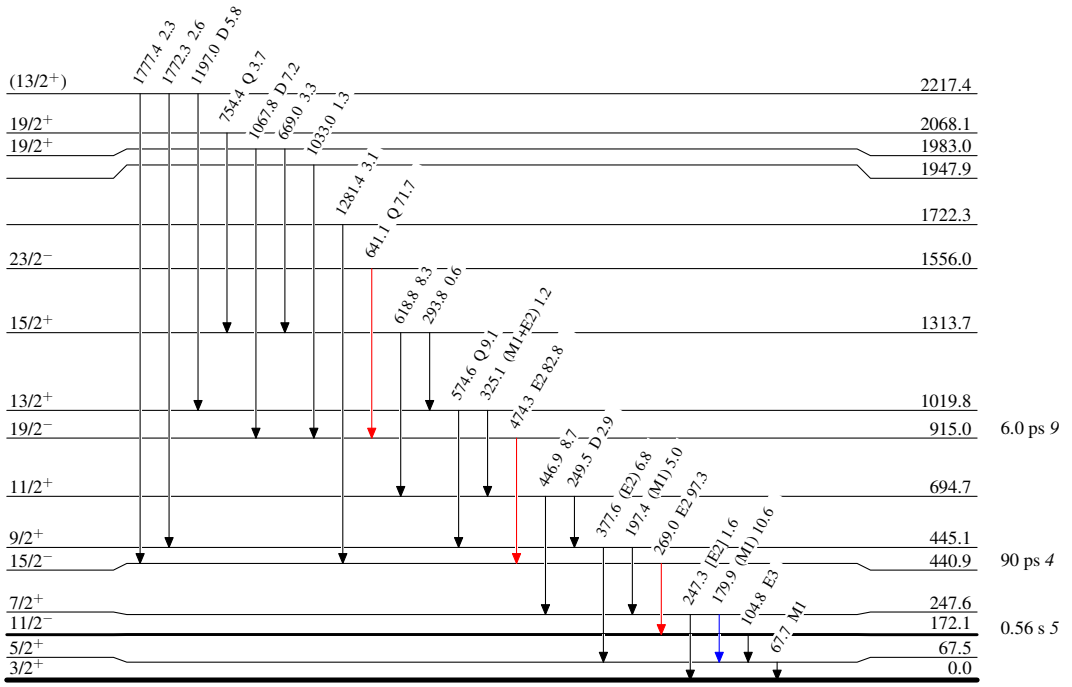
$^{129}_{57}La_{72}$

$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28

Level Scheme (continued)

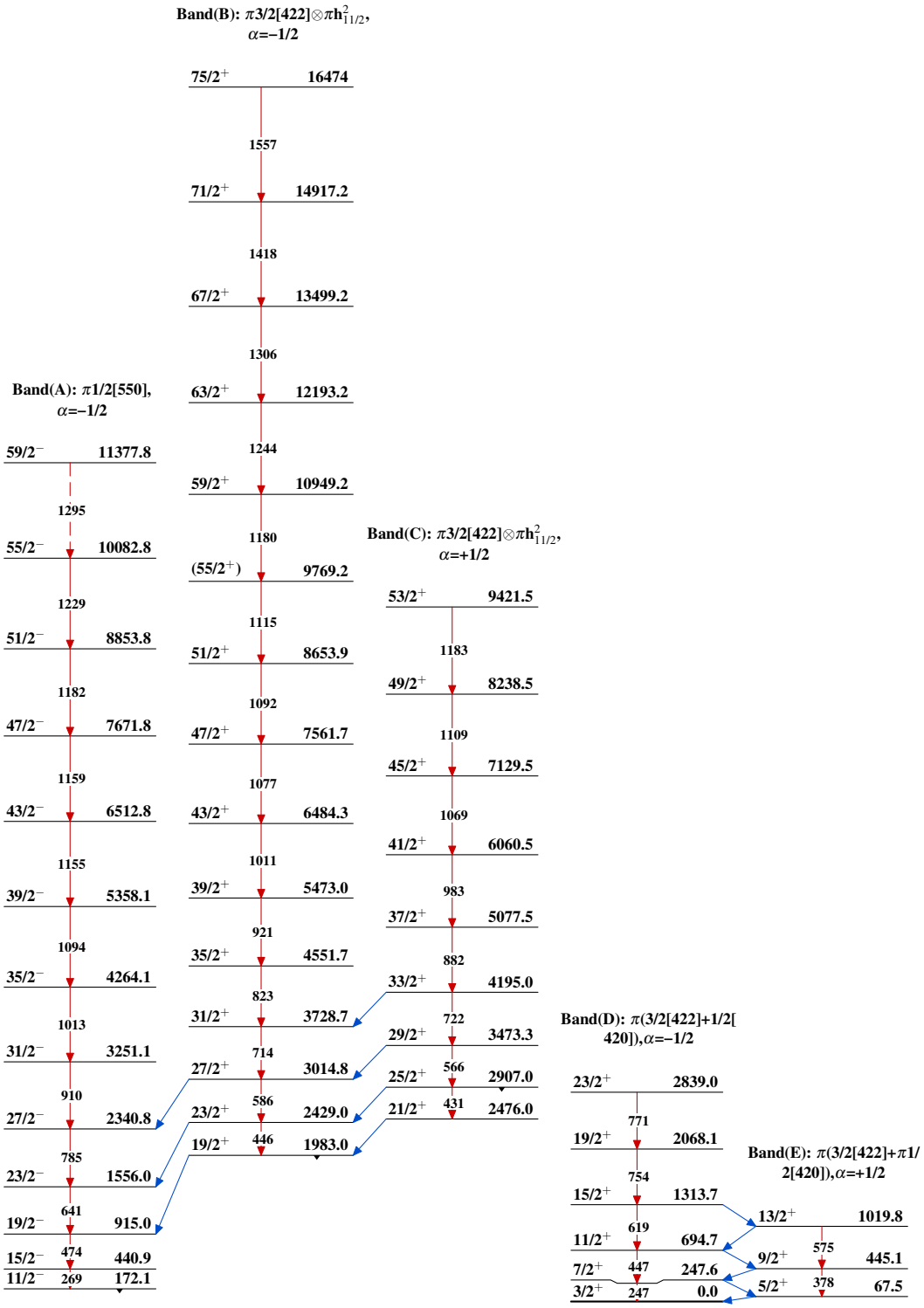
Intensities: Relative I_γ
@ Multiply placed: intensity suitably divided

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$



$^{129}_{57}La_{72}$

$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28



$^{129}_{57}La_{72}$

$^{51}V(^{82}Se,4n\gamma),^{100}Mo(^{34}S,p4n\gamma)$ 1992He03,2000Wa28 (continued)