^{160}Dy(n,γ) E=th 1986Sc16,1977Be03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. W. Reich	NDS 112,2497 (2011)	1-Jun-2011

Additional information 1.

Data are from (n,γ) reaction with thermal neutrons and resonance-averaging neutron beams with mean energies of 2 and 24 keV as well as (n,ce) reaction with thermal neutrons. γ's were measured with curved-crystal and pair spectrometers and ce's were measured in a magnetic spectrometer.

The data on the primary γ's from 2- and 24-keV neutron capture are not shown here. They can be found in 1986Sc16.

The level scheme and γ placements are from 1986Sc16. They differ considerably from those of 1977Be03.

^{161}Dy Levels

Additional information 2.

E(level)[†]	J$^{\pi}$[‡]
0.0[b]	5/2$^+$
25.6521[c] 8	5/2$^-$
43.8213[b] 8	7/2$^+$
74.5671[d] 7	3/2$^-$
100.4053[b] 21	9/2$^+$
103.0629[c] 8	7/2$^-$
131.7613[d] 8	5/2$^-$
201.0883[c] 11	9/2$^-$
212.9544[d] 10	7/2$^-$
314.9423[d] 11	9/2$^-$
366.9755[e] 11	1/2$^-$
418.2349[e] 14	3/2$^-$
451.4344[e] 11	5/2$^-$
550.2544[f] 16	3/2$^+$
567.9448[e] 19	7/2$^-$
607.5817[g] 17	1/2$^+$
609.8328[f] 21	5/2$^+$
628.236[e] 8	9/2$^-$
633.1690[g] 16	5/2$^+$
678.3239[h] 21	3/2$^+$
696.079[f] 13	7/2$^+$
699.1408[i] 20	3/2$^+$
730.915[h] 3	5/2$^+$
772.7291[i] 21	1/2$^+$
777.1277[j] 25	1/2$^-$
790.647[k] 12	5/2$^-$
804.389[j] 3	3/2$^-$
825.7168[g] 24	3/2$^+$
849.261[i] 4	5/2$^+$
857.504[h] 7	(7/2)$^+$
858.7938[l] 19	3/2$^-$
867.871[j] 5	5/2$^-$
873.091[l] 3	1/2$^-$
878.49[k] 4	7/2$^-$

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

^{161}Dy Levels (continued)

E(level)[†]	J$^\pi$[‡]	Comments
922.328 *24*	5/2$^-$,7/2$^-$[&]	
1004.7[#] *6*	(1/2$^+$,3/2$^+$)	
1061.3[#] *6*	(1/2$^+$,3/2$^+$)	
1067.109 *9*	7/2	
1071.265 *7*	3/2$^-$	
1098.226 *9*	3/2$^+$	
1122.3[@] *3*		
1132.6[@] *5*		
1141.6[@] *3*		
1147.9[@] *2*		
1154.2[#] *11*	1/2$^{(-)}$,3/2$^{(-)}$	J$^\pi$: from L=1 in (d,t). From resonance-averaged n capture, π=+.
1160.4[@] *5*		
1178.328 *20*	5/2,7/2$^-$	
1183.6[@] *6*		
1186.685 *11*	5/2$^-$	
1192.5[@] *2*		
1206.935 *10*	5/2$^-$	
1268.969[m] *4*	1/2$^-$	
1302.921[m] *12*	3/2$^-$	
1319.2[@] *2*		
1336.6[@] *5*		
1350.5[@] *10*		
1357.936 *16*	1/2$^-$,3/2$^-$	
1379.343 *21*	3/2$^-$	
1399.2[@] *3*		
1401.114 *12*	5/2,7/2$^+$[a]	
(6454.47 *9*)	1/2$^+$	E(level): S(n) value from 1986Sc16; neutron-capture "state". J$^\pi$: from predominantly s-wave n-capture by a 0$^+$ target.

[†] From least-squares fit to the γ energies, unless noted otherwise. The uncertainties are from the least-squares fit, but with the 10 ppm systematic uncertainty added in quadrature to that from the fit. This fit gives a reduced-χ^2 value of 2.2, which indicates that either the uncertainties of the γ energies (1986Sc16) have been underestimated or some of the γ's are misplaced or multiplets.

[‡] From the Adopted Values.

[#] From primary γ energy in averaged-resonance capture (1986Sc16) and no secondary γ's placed from level.

[@] From primary γ energy in thermal n capture (1986Sc16) and no secondary γ's placed from level.

[&] 1986Sc16 report J$^\pi$=5/2$^-$,7/2,9/2$^+$.

[a] 1986Sc16 report J$^\pi$=5/2,7/2.

[b] Band(A): 5/2[642] band.

[c] Band(B): 5/2[523] band.

[d] Band(C): 3/2[521] band.

[e] Band(D): 1/2[521] band.

[f] Band(E): 3/2[402] band, with 3/2[651] admixture.

[g] Band(F): ΔN=2−mixed 1/2[660]+1/2[400] band. This band may also contain an admixture of the K-2 γ-vibrational band built on the ^{161}Dy g.s. (5/2[642]).

[h] Band(G): 3/2[651] band, with 3/2[402] admixture.

[i] Band(H): ΔN=2−mixed 1/2[400] and 1/2[660] band. This band may also contain an admixture of the K-2 γ-vibrational band

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

^{161}Dy Levels (continued)

built on the ^{161}Dy g.s. (5/2[642]).
[j] Band(I): $K^{\pi}=1/2^{-}$, K-2 γ-vibrational, band built on 3/2[521].
[k] Band(J): 5/2[512] band.
[l] Band(K): 1/2[530] band.
[m] Band(L): 1/2[510] band.

$\gamma(^{161}Dy)$

Iγ normalization: normalization as given by 1986Sc16, who assume a g.s. feeding of 93% and assign a 20% systematic uncertainty.

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[@]	Comments
25.69[&] *3*		25.6521	5/2$^-$	0.0	5/2$^+$			
28.83[&] *6*	0.05 *5*	131.7613	5/2$^-$	103.0629	7/2$^-$			
43.821 *1*	0.99 *23*	43.8213	7/2$^+$	0.0	5/2$^+$	M1+E2	0.216 *8*	α(L1)exp=2.9 *7*. δ: 1986Sc16 report %E2=4.7 *7* for this G.
[x]47.707 *3*	0.021 *13*							
48.914 *1*	12.9 *30*	74.5671	3/2$^-$	25.6521	5/2$^-$	M1+E2	−0.056 *1*	α(L1)exp=1.9 *5*. δ: 1986Sc16 report %E2=0.50 *24* for this G.
[x]49.961 *6*	0.036 *21*							
[x]52.904 *6*	0.06 *3*							
57.196 *1*	1.7 *5*	131.7613	5/2$^-$	74.5671	3/2$^-$	M1+E2	−0.187 *16*	α(L1)exp=1.5 *4*. δ: 1986Sc16 report %E2=2.8 *4* for this G.
59.235 *2*	0.15 *5*	103.0629	7/2$^-$	43.8213	7/2$^+$			
74.569 *1*	8.8 *19*	74.5671	3/2$^-$	0.0	5/2$^+$	E1		α(K)exp=0.43 *10*.
[x]76.592 *2*	0.12 *3*							
77.414 *1*	0.34 *8*	103.0629	7/2$^-$	25.6521	5/2$^-$	M1+E2	−1.050 *8*	α(L1)exp=0.20 *6*. δ: 1986Sc16 report mult=E2,M1 for this G.
[x]77.641 *9*	0.028 *14*							
81.196 *1*	0.99 *25*	212.9544	7/2$^-$	131.7613	5/2$^-$	M1+E2	0.18 *3*	α(K)exp=3.8 *10*. δ: 1986Sc16 report mult=M1 for this G.
87.942 *1*	0.21 *5*	131.7613	5/2$^-$	43.8213	7/2$^+$			
[x]96.596 *4*	0.027 *12*							
98.028 *3*	0.052 *15*	201.0883	9/2$^-$	103.0629	7/2$^-$	M1+E2	0.9 *2*	α(K)exp=7.5 *25*. δ: 1986Sc16 report %E2=11 *4* for this γ, which yields a δ value considerably different from the adopted one.
100.413 *9*	0.039 *19*	100.4053	9/2$^+$	0.0	5/2$^+$			
100.707 *10*	0.026 *14*	201.0883	9/2$^-$	100.4053	9/2$^+$			
101.990 *1*	0.19 *4*	314.9423	9/2$^-$	212.9544	7/2$^-$			
103.062 *1*	0.70 *13*	103.0629	7/2$^-$	0.0	5/2$^+$	E1		α(K)exp=0.103 *23*.
106.108 *1*	0.081 *18*	131.7613	5/2$^-$	25.6521	5/2$^-$			
112.549 *2*	0.071 *17*	212.9544	7/2$^-$	100.4053	9/2$^+$			
[x]121.769 *11*	0.017 *6*							
[x]124.928 *10*	0.025 *9*							
[x]124.950 *9*	0.025 *9*							
[x]125.161 *8*	0.021 *6*							
[x]131.182 *4*	0.014 *6*							
[x]133.685 *6*	0.013 *6*							
[x]133.867 *6*	0.05 *3*							

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

γ(^{161}Dy) (continued)

E_γ [†]	I_γ [‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	Comments
135.669 *7*	0.023 *5*	1206.935	5/2$^-$	1071.265	3/2$^-$	(E2,M1)	α(K)exp=0.53 *16*.
138.385 *2*	0.30 *4*	212.9544	7/2$^-$	74.5671	3/2$^-$	E2	α(K)exp=0.46 *8*.
x139.645 *8*	0.019 *5*						
x142.552 *6*	0.053 *14*						
149.723 *8*	0.018 *4*	567.9448	7/2$^-$	418.2349	3/2$^-$		
150.121 *6*	0.018 *4*	849.261	5/2$^+$	699.1408	3/2$^+$		
x154.171 *3*	0.035 *9*						
157.267 *1*	0.123 *15*	201.0883	9/2$^-$	43.8213	7/2$^+$		
x160.466 *6*	0.017 *4*						
x161.228 *13*	0.019 *8*						
x163.32 *3*	0.012 *5*						
x163.553 *7*	0.022 *5*						
x166.021 *13*	0.023 *5*						
x166.064 *14*	0.018 *8*						
x166.219 *8*	0.014 *5*						
169.546 *5*	0.021 *5*	777.1277	1/2$^-$	607.5817	1/2$^+$		
x170.400 *12*	0.048 *19*						
x170.941 *3*	0.045 *5*						α(K)exp=0.74 *13*. Conversion line may contain contributions from other lines.
171.221 *6*	0.025 *4*	804.389	3/2$^-$	633.1690	5/2$^+$		
x172.749 *4*	0.064 *12*						α(K)exp=0.39 *9*. Conversion line may contain contributions from other lines.
x174.67 *4*	0.018 *8*						
x174.703 *10*	0.021 *9*						
175.433 *2*	0.104 *2*	201.0883	9/2$^-$	25.6521	5/2$^-$		α(K)exp=0.20 *4*. Conversion line may contain contributions from other lines.
x176.238 *12*	0.010 *3*						
176.800 *8*	0.028 *8*	628.236	9/2$^-$	451.4344	5/2$^-$		
180.527 *22*	0.017 *3*	858.7938	3/2$^-$	678.3239	3/2$^+$		
183.179 *1*	0.110 *7*	314.9423	9/2$^-$	131.7613	5/2$^-$	E2	α(K)exp=0.23 *4*. Mult.: Reported as E1,(E2) by 1986Sc16.
x185.763 *10*	0.021 *4*						α(K)exp=1.0 *8*. Conversion line may contain contributions from other lines.
187.310 *6*	0.029 *3*	212.9544	7/2$^-$	25.6521	5/2$^-$		
192.548 *3*	0.056 *4*	825.7168	3/2$^+$	633.1690	5/2$^+$	M1	α(K)exp=0.46 *9*.
194.784 *7*	0.024 *3*	873.091	1/2$^-$	678.3239	3/2$^+$		
x196.434 *7*	0.027 *5*						
196.815 *6*	0.025 *4*	804.389	3/2$^-$	607.5817	1/2$^+$		
199.242 *9*	0.119 *9*	1067.109	7/2	867.871	5/2$^-$		
x205.538 *25*	0.012 *4*						
x208.75 *3*	0.011 *5*						
215.899 *11*	0.024 *3*	825.7168	3/2$^+$	609.8328	5/2$^+$		
225.621 *2*	0.186 *10*	858.7938	3/2$^-$	633.1690	5/2$^+$		
230.39 *3*	0.039 *13*	1098.226	3/2$^+$	867.871	5/2$^-$		
x230.58 *4*	0.026 *6*						
x232.966 *10*	0.031 *4*						
235.81 *3*	0.018 *10*	1302.921	3/2$^-$	1067.109	7/2		
x238.069 *4*	0.076 *18*						
238.481 *2*	0.91 *3*	451.4344	5/2$^-$	212.9544	7/2$^-$		
239.428 *11*	0.017 *3*	849.261	5/2$^+$	609.8328	5/2$^+$		
x240.322 *5*	0.033 *4*						
244.62 *4*	0.049 *13*	696.079	7/2$^+$	451.4344	5/2$^-$		
247.55[b] *6*	0.030[b] *20*	699.1408	3/2$^+$	451.4344	5/2$^-$		
247.55[b] *6*	0.030[b] *20*	857.504	(7/2)$^+$	609.8328	5/2$^+$		
251.197 *7*	0.115 *11*	858.7938	3/2$^-$	607.5817	1/2$^+$		
x252.522 *14*	0.025 *4*						

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

γ(^{161}Dy) (continued)

E_γ [†]	I_γ [‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	Comments
253.004 *3*	0.132 *10*	567.9448	7/2$^-$	314.9423	9/2$^-$	M1,E2	α(K)exp=0.14 *3*.
x256.237 *24*	0.026 *5*						
x259.084 *3*	0.122 *11*						α(K)exp=0.07 *3*. Conversion line may contain contributions from other lines.
x259.32 *3*	0.042 *13*						
x263.473 *3*	0.116 *7*						
265.504 *4*	0.072 *6*	873.091	1/2$^-$	607.5817	1/2$^+$		
x266.180 *20*	0.027 *5*						
x271.473 *7*	0.041 *7*						
x276.226 *14*	0.013 *4*						
x281.407 *9*	0.035 *3*						
286.476 *2*	2.84 *12*	418.2349	3/2$^-$	131.7613	5/2$^-$	M1	α(K)exp=0.106 *13*.
292.409 *1*	8.8 *5*	366.9755	1/2$^-$	74.5671	3/2$^-$	M1	α(K)exp=0.103 *13*.
299.006 *5*	0.027 *3*	849.261	5/2$^+$	550.2544	3/2$^+$		
x299.519 *21*	0.018 *3*						
x305.711 *11*	0.016 *3*						
x308.954 *23*	0.044 *17*						
313.306 *20*	0.014 *5*	628.236	9/2$^-$	314.9423	9/2$^-$		
313.602 *20*	0.028 *7*	1186.685	5/2$^-$	873.091	1/2$^-$		
x314.705 *17*	0.013 *3*						
315.175 *3*	0.090 *4*	418.2349	3/2$^-$	103.0629	7/2$^-$		α(K)exp=0.16 *3*. Conversion line may contain contributions from other lines.
x315.84 *4*	0.038 *17*						
319.673 *1*	1.37 *8*	451.4344	5/2$^-$	131.7613	5/2$^-$	M1	α(K)exp=0.083 *10*.
x320.01 *3*	0.039 *18*						
x320.783 *10*	0.031 *16*						
x322.691 *12*	0.019 *5*						
x324.043 *3*	0.059 *3*						
325.741 *16*	0.013 *3*	777.1277	1/2$^-$	451.4344	5/2$^-$		
x329.527 *2*	0.142 *9*						
x330.14 *4*	0.019 *5*						
x330.225 *23*	0.022 *5*						
x333.714 *24*	1.12 *16*						
340.354 *13*	0.024 *4*	1071.265	3/2$^-$	730.915	5/2$^+$		
341.320 *2*	0.48 *3*	366.9755	1/2$^-$	25.6521	5/2$^-$	E2	α(K)exp=0.037 *6*.
343.664 *2*	2.79 *20*	418.2349	3/2$^-$	74.5671	3/2$^-$	M1	α(K)exp=0.063 *8*.
x346.39 *4*	0.07 *3*						
x346.87 *4*	0.071 *25*						
348.371 *3*	0.236 *21*	451.4344	5/2$^-$	103.0629	7/2$^-$		
x352.927 *3*	0.134 *17*						
354.488 *15*	0.22 *5*	772.7291	1/2$^+$	418.2349	3/2$^-$		
354.989 *2*	0.287 *22*	567.9448	7/2$^-$	212.9544	7/2$^-$		α(K)exp=0.046 *17*.
360.966 *15*	0.029 *4*	1186.685	5/2$^-$	825.7168	3/2$^+$		α(K)exp=0.38 *9*. Conversion line may contain contributions from other lines.
x364.75 *6*	0.025 *6*						
x366.286 *22*	0.015 *3*						
366.845 *8*	0.082 *13*	567.9448	7/2$^-$	201.0883	9/2$^-$		
x368.424 *10*	0.031 *4*						
x370.012 *3*	0.186 *6*						
371.00 *4*	0.017 *7*	1067.109	7/2	696.079	7/2$^+$		
373.930 *20*	0.015 *2*	1178.328	5/2,7/2$^-$	804.389	3/2$^-$		
374.276 *6*	0.076 *23*	825.7168	3/2$^+$	451.4344	5/2$^-$		
x374.425 *13*	0.038 *10*						
x376.439 *4*	0.255 *13*						
376.869 *5*	0.285 *16*	451.4344	5/2$^-$	74.5671	3/2$^-$	M1,E2	α(K)exp=0.054 *13*.
392.63 *4*	0.82 *20*	418.2349	3/2$^-$	25.6521	5/2$^-$		

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

γ(^{161}Dy) (continued)

E_γ †	I_γ ‡ a	E_i(level)	J_i^π	E_f	J_f^π	Mult. #	Comments
x393.80 3	0.021 4						
x394.76 5	0.019 4						
x395.975 18	0.024 3						
396.881 4	0.158 8	609.8328	5/2+	212.9544	7/2−		
x399.84 3	0.183 19						
x400.40 3	0.022 5						
x401.256 18	0.045 17						
x403.602 6	0.079 21						
405.753 2	0.177 17	772.7291	1/2+	366.9755	1/2−		
406.071 7	0.045 11	857.504	(7/2)+	451.4344	5/2−		α(K)exp=1.12 22. Conversion line may contain contributions from other lines.
407.365 3	0.139 16	858.7938	3/2−	451.4344	5/2−		
x408.243 3	0.120 22						
x409.80 3	0.032 18						
410.171 3	0.177 18	1268.969	1/2−	858.7938	3/2−		
416.442 13	0.056 6	867.871	5/2−	451.4344	5/2−		
418.494 3	0.38 3	550.2544	3/2+	131.7613	5/2−		
420.27 3	0.027 5	633.1690	5/2+	212.9544	7/2−		
425.784 4	0.122 12	451.4344	5/2−	25.6521	5/2−		
x431.53 5	0.209 24						
x432.05 3	0.022 4						
x436.203 3	0.148 10						
438.053 22	0.031 6	1071.265	3/2−	633.1690	5/2+		
x442.223 4	0.188 24						
443.28 3	0.024 4	1268.969	1/2−	825.7168	3/2+		
444.168 23	0.031 8	1302.921	3/2−	858.7938	3/2−		
x444.546 6	0.052 12						
449.635 11	0.057 6	867.871	5/2−	418.2349	3/2−		
454.857 5	0.102 7	873.091	1/2−	418.2349	3/2−	M1,(E2)	α(K)exp=0.035 7.
458.737 5	0.152 20	825.7168	3/2+	366.9755	1/2−		
461.437 8	0.120 10	1071.265	3/2−	609.8328	5/2+		
x462.440 8	0.077 22						
464.879 19	0.104 15	567.9448	7/2−	103.0629	7/2−		α(K)exp=0.059 15. Conversion line may contain contributions from other lines.
465.00 3	0.24 4	1098.226	3/2+	633.1690	5/2+		α(K)exp=0.020 5. Conversion line may contain contributions from other lines.
x467.664 23	0.026 11						
x469.599 6	0.11 3					M1,E2	α(K)exp=0.027 7.
x473.93 5	0.25 3						
475.687 2	0.88 9	550.2544	3/2+	74.5671	3/2−		
x477.51 7	0.057 23						
478.083 6	0.169 24	609.8328	5/2+	131.7613	5/2−		
478.778 23	0.101 17	1401.114	5/2,7/2+	922.328	5/2−,7/2−		
483.14 4	0.028 8	696.079	7/2+	212.9544	7/2−		
x484.50 3	0.29 6						
x485.377 8	0.105 9						
x490.531 11	0.057 7						
x490.85 4	0.026 5						
491.856 7	0.235 15	1268.969	1/2−	777.1277	1/2−	M1	α(K)exp=0.025 4.
x493.888 4	0.302 15					M1	α(K)exp=0.029 4.
506.131 8	0.132 17	873.091	1/2−	366.9755	1/2−	M1,E2	α(K)exp=0.022 6.
x513.42 11	0.14 7						α(K)exp=0.11 5. Conversion line may contain contributions from other lines.
x514.61 7	0.23 6						α(K)exp=0.021 7. Conversion line may contain contributions from other lines.
517.962 4	0.24 3	730.915	5/2+	212.9544	7/2−		

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

γ(^{161}Dy) (continued)

E_γ †	I_γ ‡ a	E_i(level)	J_i^π	E_f	J_f^π	Mult. #	δ @	Comments
520.87 *7*	0.22 *5*	1071.265	3/2⁻	550.2544	3/2⁺			
x521.003 *5*	0.205 *24*							
530.176 *15*	0.12 *3*	1302.921	3/2⁻	772.7291	1/2⁺			
532.750 *10*	0.217 *23*	633.1690	5/2⁺	100.4053	9/2⁺			α(K)exp=0.016 *3*. Conversion line may contain contributions from other lines.
533.012 *6*	0.36 *3*	607.5817	1/2⁺	74.5671	3/2⁻	E1		α(K)exp=0.0093 *19*. Mult.: Reported as E2,E1 by 1986Sc16.
x533.122 *15*	0.38 *7*							
535.260 *4*	0.303 *14*	609.8328	5/2⁺	74.5671	3/2⁻			
x538.15 *4*	0.079 *23*							
541.6 *4*	0.13 *11*	567.9448	7/2⁻	25.6521	5/2⁻			α(K)exp=0.018 *5*.
546.564 *3*	0.64 *4*	678.3239	3/2⁺	131.7613	5/2⁻	E1		α(K)exp=0.0035 *8*. Conversion line may contain contributions from other lines.
x549.396 *13*	0.18 *3*							
550.251 *3*	1.74 *11*	550.2544	3/2⁺	0.0	5/2⁺	M1+E2		α(K)exp=0.0156 *20*. δ: 1986Sc16 report %E2=43 *19*, but 1983Ri15 report δ=−0.040 *35* or −3.8 *+4−7*, from ^{161}Tb β⁻ decay.
551.848 *23*	0.044 *5*	1401.114	5/2,7/2⁺	849.261	5/2⁺			
x552.390 *8*	0.140 *10*					M1,E2		α(K)exp=0.140 *10*.
553.535 b *23*	0.041 b *4*	1186.685	5/2⁻	633.1690	5/2⁺			
553.535 b *23*	0.041 b *4*	1357.936	1/2⁻,3/2⁻	804.389	3/2⁻			
x554.569 *16*	0.106 *13*							
x554.809 *3*	0.49 *3*					M1		α(K)exp=0.0190 *25*.
558.601 *9*	0.149 *13*	633.1690	5/2⁺	74.5671	3/2⁻			
566.011 *4*	0.79 *5*	609.8328	5/2⁺	43.8213	7/2⁺	E2+M1	1.2 *+7−4*	α(K)exp=0.0131 *18*. δ: computed by the evaluator from %M1=42 *19* (1986Sc16).
567.382 *3*	0.59 *3*	699.1408	3/2⁺	131.7613	5/2⁻	E1		α(K)exp=0.0014 *8*.
x573.626 *19*	0.18 *3*							
x578.346 *9*	0.132 *11*							
580.83 *3*	0.053 *7*	1357.936	1/2⁻,3/2⁻	777.1277	1/2⁻			
x585.965 *4*	0.382 *22*							α(K)exp=0.0075 *13*. Conversion line may contain contributions from other lines.
x586.13 *10*	0.23 *6*							α(K)exp=0.012 *4*. Conversion line may contain contributions from other lines.
x588.101 *10*	0.289 *16*							
x588.29 *10*	0.22 *6*							α(K)exp=0.012 *4*. Conversion line may contain contributions from other lines.
589.343 *2*	1.33 *8*	633.1690	5/2⁺	43.8213	7/2⁺	E2+M1	1.4 *+8−4*	α(K)exp=0.0111 *14*. δ: computed by the evaluator from %M1=34 *17* (1986Sc16).
x590.779 *5*	0.400 *24*					E2+M1	1.2 *+7−4*	α(K)exp=0.0118 *18*. δ: computed by the evaluator from %M1=43 *21* (1986Sc16).
595.64 *4*	0.059 *12*	696.079	7/2⁺	100.4053	9/2⁺			
x598.832 *14*	0.098 *9*							
599.144 *9*	0.258 *20*	730.915	5/2⁺	131.7613	5/2⁻			
x601.37 *5*	0.040 *11*							
602.235 *22*	0.082 *12*	1379.343	3/2⁻	777.1277	1/2⁻			

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

γ(^{161}Dy) (continued)

E_γ [†]	I_γ [‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	δ[@]	Comments
603.756 *3*	1.26 *9*	678.3239	3/2$^+$	74.5671	3/2$^-$	E1		α(K)exp=0.0019 *4*.
x604.845 *8*	0.257 *19*							
607.579 *2*	2.18 *14*	607.5817	1/2$^+$	0.0	5/2$^+$	E2		α(K)exp=0.0065 *8*.
609.828 *6*	0.316 *24*	609.8328	5/2$^+$	0.0	5/2$^+$	E2		α(K)exp=0.0085 *21*. Mult.: Reported as E2,(E1) by 1986Sc16.
x611.128 *9*	0.199 *18*							
x615.184 *21*	0.047 *14*							
x616.180 *24*	0.072 *9*							
x616.684 *8*	0.223 *13*							
x617.69 *4*	0.042 *10*							
618.64 *4*	0.076 *11*	1186.685	5/2$^-$	567.9448	7/2$^-$			
624.571 *3*	0.94 *7*	699.1408	3/2$^+$	74.5671	3/2$^-$	E1		α(K)exp=0.0025 *5*. Conversion line may contain contributions from other lines.
x627.206 *17*	0.099 *13*							
627.78 *5*	0.054 *13*	730.915	5/2$^+$	103.0629	7/2$^-$			
x628.538 *16*	0.135 *10*							
x632.631 *15*	0.220 *17*							
x633.885 *22*	0.25 *3*							
x636.782 *23*	0.14 *3*							
x638.018 *14*	0.18 *4*							
644.66 *8*	0.41 *8*	857.504	(7/2)$^+$	212.9544	7/2$^-$	E1		α(K)exp=0.0040 *12*. Conversion line may contain contributions from other lines.
x644.809 *5*	0.75 *5*					E1		α(K)exp=0.0022 *5*. Conversion line may contain contributions from other lines.
645.30 *6*	0.11 *3*	777.1277	1/2$^-$	131.7613	5/2$^-$			
646.791 *11*	0.328 *19*	1098.226	3/2$^+$	451.4344	5/2$^-$			
654.924 *9*	0.38 *3*	867.871	5/2$^-$	212.9544	7/2$^-$	E2		0.0069 *14*.
656.360 *10*	0.43 *3*	730.915	5/2$^+$	74.5671	3/2$^-$			
x664.739 *22*	0.066 *13*							
665.39 *5*	0.063 *11*	878.49	7/2$^-$	212.9544	7/2$^-$			
672.625 *4*	0.99 *6*	804.389	3/2$^-$	131.7613	5/2$^-$	M1+E2	1.0 *4*	α(K)exp=0.00120 *16*. δ: computed by the evaluator from %E2 49 *20*, from 1986Sc16.
x675.19 *16*	0.054 *25*							
678.324 *3*	1.25 *8*	678.3239	3/2$^+$	0.0	5/2$^+$	M1		α(K)exp=0.0113 *16*.
680.00 *3*	0.133 *20*	1098.226	3/2$^+$	418.2349	3/2$^-$			
x684.28 *4*	0.073 *12*							
687.085 *7*	0.387 *17*	730.915	5/2$^+$	43.8213	7/2$^+$	M1		α(K)exp=0.0117 *16*.
687.614 *24*	0.151 *13*	790.647	5/2$^-$	103.0629	7/2$^-$			
696.080 *16*	0.244 *21*	696.079	7/2$^+$	0.0	5/2$^+$			
699.135 *5*	0.85 *8*	699.1408	3/2$^+$	0.0	5/2$^+$	M1		α(K)exp=0.0109 *16*.
702.561 *3*	2.03 *18*	777.1277	1/2$^-$	74.5671	3/2$^-$	M1+E2	0.9 *5*	α(K)exp=0.0084 *13*. δ: computed by the evaluator from %E2=46 *23* (1986Sc16).
704.30 *10*	0.13 *3*	1071.265	3/2$^-$	366.9755	1/2$^-$			
x710.38 *5*	0.104 *13*							
x711.911 *15*	0.297 *16*							
x715.84 *5*	0.18 *4*							
721.34 *8*	0.084 *17*	922.328	5/2$^-$,7/2$^-$	201.0883	9/2$^-$			
727.035 *6*	0.79 *3*	858.7938	3/2$^-$	131.7613	5/2$^-$	E2+M1	1.5 *+12−5*	α(K)exp=0.0066 *10*. δ: computed by the evaluator from %M1=32 *20* (1986Sc16).

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

$\gamma(^{161}Dy)$ (continued)

E_γ †	I_γ ‡a	E_i(level)	J_i^π	E_f	J_f^π	Mult.#	δ@	Comments
729.815 *6*	0.87 *5*	804.389	3/2$^-$	74.5671	3/2$^-$	E2+M1	1.2 *+8–4*	α(K)exp=0.0070 *10*. δ: computed by the evaluator from %M1 40 *20*, from 1986Sc16.
730.91 *3*	0.14 *3*	730.915	5/2$^+$	0.0	5/2$^+$			α(K)exp=0.010 *3*. Conversion line may contain contributions from other lines.
731.251 *20*	0.25 *3*	1098.226	3/2$^+$	366.9755	1/2$^-$			α(K)exp=0.0055 *15*. Conversion line may contain contributions from other lines.
x733.28 *5*	0.106 *17*							
736.097 *8*	0.41 *4*	867.871	5/2$^-$	131.7613	5/2$^-$	E2		α(K)exp=0.0058 *12*.
746.89b *6*	0.15b *4*	790.647	5/2$^-$	43.8213	7/2$^+$			
746.89b *6*	0.15b *4*	878.49	7/2$^-$	131.7613	5/2$^-$			
751.18 *3*	0.31 *3*	825.7168	3/2$^+$	74.5671	3/2$^-$	E1		α(K)exp=0.0040 *10*. Mult.: Reported as E2,E1 by 1986Sc16.
x757.637 *20*	0.285 *21*					M1,E2		α(K)exp=0.0083 *18*.
764.984 *16*	0.378 *24*	790.647	5/2$^-$	25.6521	5/2$^-$	E2,M1		α(K)exp=0.0062 *11*.
x768.37 *3*	0.29 *4*							α(K)exp=0.014 *3*. Conversion line may contain contributions from other lines.
x770.755 *17*	0.48 *3*					E2,M1		α(K)exp=0.0063 *10*.
x771.28 *4*	0.27 *4*							
772.726 *6*	1.30 *10*	772.7291	1/2$^+$	0.0	5/2$^+$	E2		α(K)exp=0.0033 *5*. Mult.: Reported as E2,(E1) by 1986Sc16.
778.70 *4*	0.214 *24*	804.389	3/2$^-$	25.6521	5/2$^-$			
781.926 *12*	0.57 *5*	825.7168	3/2$^+$	43.8213	7/2$^+$	E2		α(K)exp=0.0039 *9*. Mult.: Reported as E2,(E1) by 1986Sc16.
x782.30 *4*	0.20 *3*							
784.24 *3*	0.32 *3*	858.7938	3/2$^-$	74.5671	3/2$^-$	M1,E2		α(K)exp=0.0068 *14*.
790.61 *3*	0.29 *4*	790.647	5/2$^-$	0.0	5/2$^+$			
793.346 *17*	0.37 *6*	867.871	5/2$^-$	74.5671	3/2$^-$			
798.508 *7*	1.22 *11*	873.091	1/2$^-$	74.5671	3/2$^-$	M1,(E2)		α(K)exp=0.0065 *10*.
805.437 *15*	0.375 *23*	849.261	5/2$^+$	43.8213	7/2$^+$	M1,E2		α(K)exp=0.0073 *15*.
x809.32 *5*	0.159 *16*					(M1,E2)		α(K)exp=0.009 *3*.
811.44 *13*	0.097 *15*	1379.343	3/2$^-$	567.9448	7/2$^-$			
x815.32 *12*	0.061 *16*							
825.705 *10*	0.73 *4*	825.7168	3/2$^+$	0.0	5/2$^+$	E2		α(K)exp=0.0036 *5*.
x827.83 *20*	0.047 *21*							
x828.73 *15*	0.082 *22*							
831.83 *3*	0.392 *25*	857.504	(7/2)$^+$	25.6521	5/2$^-$			
834.86 *8*	0.134 *19*	878.49	7/2$^-$	43.8213	7/2$^+$			
x838.72 *17*	0.12 *4*							
840.02 *17*	0.12 *4*	1206.935	5/2$^-$	366.9755	1/2$^-$			
x842.37 *4*	1.14 *6*					E1		α(K)exp≤0.0019 *4*. (Value corrected for a contribution from a line from the 842.59γ, assumed to be E1.).
x842.59 *3*	0.52 *10*							α(K)exp=0.0056 *15*.
x844.854 *22*	0.27 *4*					M1,E2		α(K)exp=0.0077 *18*.
847.59b *17*	0.088b *24*	873.091	1/2$^-$	25.6521	5/2$^-$			
847.59b *17*	0.088b *24*	922.328	5/2$^-$,7/2$^-$	74.5671	3/2$^-$			
850.863 *14*	0.70 *6*	1401.114	5/2,7/2$^+$	550.2544	3/2$^+$			α(K)exp=0.0046 *10*.

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

γ(^{161}Dy) (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	Comments
[x]852.18 *3*	0.51 *4*						
852.73 *8*	0.21 *3*	878.49	7/2$^-$	25.6521	5/2$^-$		α(K)exp=0.012 *4*. Conversion line may contain contributions from other lines.
854.11 *4*	0.18 *3*	1067.109	7/2	212.9544	7/2$^-$		
[x]862.26 *10*	0.21 *4*						
[x]865.15 *23*	0.19 *5*						
866.32 *18*	0.14 *5*	1067.109	7/2	201.0883	9/2$^-$		
[x]868.21 *15*	0.16 *4*						
[x]870.74 *14*	0.19 *5*						
[x]872.33 *9*	0.35 *6*						
[x]895.2 *4*	0.23 *14*						
[x]896.47 *3*	0.37 *4*						α(K)exp=0.0075 *16*.
901.85 *19*	0.22 *8*	1268.969	1/2$^-$	366.9755	1/2$^-$		
[x]902.26 *19*	0.37 *7*						
[x]903.05 *13*	0.29 *5*						
[x]910.34 *20*	0.16 *5*						
[x]915.99 *14*	0.28 *7*						
922.03 *11*	0.21 *3*	922.328	5/2$^-$,7/2$^-$	0.0	5/2$^+$		
927.58 *12*	0.16 *3*	1379.343	3/2$^-$	451.4344	5/2$^-$		
935.29 *8*	0.29 *4*	1067.109	7/2	131.7613	5/2$^-$		
939.66 *3*	0.34 *3*	1357.936	1/2$^-$,3/2$^-$	418.2349	3/2$^-$		
[x]941.93 *5*	0.225 *25*						
949.9 *3*	0.086 *25*	1401.114	5/2,7/2$^+$	451.4344	5/2$^-$		
[x]955.06 *7*	0.47 *8*						
[x]959.31 *23*	0.13 *4*						
965.52 *12*	0.16 *4*	1178.328	5/2,7/2$^-$	212.9544	7/2$^-$		
966.4[b] *3*	0.12[b] *4*	1067.109	7/2	100.4053	9/2$^+$		
966.4[b] *3*	0.12[b] *4*	1098.226	3/2$^+$	131.7613	5/2$^-$		
[x]986.87 *10*	0.30 *4*						
[x]989.89 *18*	0.17 *4*						
[x]1005.13 *3*	0.92 *8*					E2,M1	α(K)exp=0.0035 *8*.
1006.1 *3*	0.15 *6*	1206.935	5/2$^-$	201.0883	9/2$^-$		
[x]1007.2 *3*	0.19 *6*						
1011.8 *3*	0.24 *6*	1379.343	3/2$^-$	366.9755	1/2$^-$		
[x]1015.07 *7*	0.26 *3*						
[x]1027.2 *3*	0.14 *4*						
[x]1034.75 *22*	0.096 *25*						
[x]1036.64 *14*	0.17 *3*						
[x]1047.18 *4*	0.56 *13*					(E2,E1)	α(K)exp=0.0022 *7*.
[x]1049.35 *23*	0.99 *21*						
[x]1060.84 *16*	0.11 *3*						
[x]1064.2 *3*	0.07 *3*						
1066.94 *10*	0.17 *3*	1067.109	7/2	0.0	5/2$^+$		α(K)exp=0.0034 *15*.
[x]1070.18 *23*	0.08 *3*						
[x]1074.2 *3*	0.12 *3*						
[x]1079.26 *11*	0.47 *7*						
[x]1087.90 *17*	0.34 *7*						
[x]1091.26 *9*	0.73 *15*						
1098.13 *14*	0.52 *8*	1098.226	3/2$^+$	0.0	5/2$^+$		
[x]1100.67 *15*	0.23 *3*						
[x]1102.25 *19*	0.17 *3*						
[x]1109.11 *12*	0.66 *6*					E2,E1	α(K)exp=0.0016 *4*.
[x]1110.4 *3*	0.29 *4*						
1132.8 *4*	0.65 *8*	1206.935	5/2$^-$	74.5671	3/2$^-$	E2	α(K)exp=0.0017 *4*. Mult.: Reported as E2,E1 by 1986Sc16.
1134.66 *22*	0.28 *5*	1178.328	5/2,7/2$^-$	43.8213	7/2$^+$		

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^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

$\gamma(^{161}Dy)$ (continued)

E_γ[†]	I_γ[‡a]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	Comments
[x]1137.04 *17*	0.50 *7*						
1142.92 *21*	0.26 *4*	1186.685	5/2$^-$	43.8213	7/2$^+$		
[x]1151.36 *23*	0.23 *4*						
1153.3 *3*	0.23 *7*	1178.328	5/2,7/2$^-$	25.6521	5/2$^-$		
[x]1154.5 *3*	0.22 *4*						
[x]1156.85 *12*	0.45 *5*						
[x]1158.55 *13*	0.47 *5*						
1161.33 *22*	0.20 *4*	1186.685	5/2$^-$	25.6521	5/2$^-$		
1165.8 *3*	0.26 *7*	1379.343	3/2$^-$	212.9544	7/2$^-$		
[x]1174.6 *3*	0.34 *8*						α(K)exp=0.0041 *13*. Conversion line may contain contributions from other lines.
1181.44 *22*	0.51 *9*	1206.935	5/2$^-$	25.6521	5/2$^-$		
[x]1208.38 *17*	0.40 *5*					(M1,E2)	α(K)exp=0.0034 *10*.
[x]1213.8 *3*	0.21 *6*						
1225.9 *3*	0.34 *9*	1357.936	1/2$^-$,3/2$^-$	131.7613	5/2$^-$		
1227.94 *21*	0.61 *9*	1302.921	3/2$^-$	74.5671	3/2$^-$		
[x]1232.23 *15*	0.55 *8*						
[x]1234.7 *4*	0.33 *14*						
[x]1240.2 *3*	0.24 *7*						
1247.46 *10*	0.50 *6*	1379.343	3/2$^-$	131.7613	5/2$^-$	M1,(E2)	α(K)exp=0.0037 *8*.
[x]1250.0 *4*	0.25 *9*						α(K)exp=0.0044 *20*.
[x]1256.81 *13*	0.50 *16*						
[x]1263.5 *4*	0.28 *9*						
1268.5 *6*	0.48 *18*	1401.114	5/2,7/2$^+$	131.7613	5/2$^-$		
[x]1270.3 *10*	0.35 *16*						
[x]1281.4 *3*	0.47 *8*						
1283.48 *6*	1.38 *22*	1357.936	1/2$^-$,3/2$^-$	74.5671	3/2$^-$		α(K)exp=0.0020 *11*.
[x]1287.37 *19*	0.40 *8*						
1297.6 *3*	0.36 *9*	1401.114	5/2,7/2$^+$	103.0629	7/2$^-$		
1302.7 *6*	0.37 *9*	1302.921	3/2$^-$	0.0	5/2$^+$		
[x]1303.98 *13*	0.70 *17*						
1332.85 *24*	0.64 *15*	1357.936	1/2$^-$,3/2$^-$	25.6521	5/2$^-$		
[x]1342.64 *11*	0.70 *7*						
[x]1350.74 *10*	1.0 *3*						
[x]1354.8 *3*	0.54 *13*						
1356.4 *4*	0.40 *9*	1401.114	5/2,7/2$^+$	43.8213	7/2$^+$		
[x]1360.8 *3*	0.73 *18*						
[x]1363.6 *4*	0.30 *9*						
[x]1365.91 *23*	0.61 *9*						
[x]1370.57 *16*	1.00 *12*					E1	α(K)exp=0.0004 *3*.
1375.3 *5*	0.39 *11*	1401.114	5/2,7/2$^+$	25.6521	5/2$^-$		
[x]1377.1 *5*	0.35 *10*						
1379.5 *4*	0.41 *10*	1379.343	3/2$^-$	0.0	5/2$^+$		
[x]1388.2 *7*	0.30 *15*						
[x]1391.89 *14*	0.77 *13*						
[x]1394.3 *4*	0.62 *16*						
1401.5 *4*	0.43 *10*	1401.114	5/2,7/2$^+$	0.0	5/2$^+$		
[x]1404.00 *17*	0.59 *9*						
[x]1413.9 *4*	0.32 *9*						
[x]1422.1 *3*	0.47 *9*						
[x]1428.1 *4*	0.31 *8*						
[x]1433.3 *4*	0.50 *6*						
[x]1438.36 *12*	0.77 *11*						
[x]1448.7 *3*	0.56 *10*						
[x]1453.5 *5*	0.39 *9*						
[x]1456.9 *4*	0.41 *10*						

Continued on next page (footnotes at end of table)

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

γ(^{161}Dy) (continued)

E_γ †	I_γ ‡ a	E_i(level)	J_i^π	E_f	J_f^π
x1462.80 17	0.63 9				
x1464.5 4	0.54 10				
x1467.7 4	0.38 9				
x1475.3 5	0.48 10				
x1478.1 3	0.55 9				
x1488.6 4	0.36 12				
x1489.76 21	0.41 6				
x1492.2 4	0.20 5				
x1495.5 3	0.30 5				
x1501.52 22	0.42 5				
x1504.89 23	0.45 6				
x1516.54 20	0.51 7				
x1521.2 3	0.29 12				
x1523.12 23	0.50 7				
x1526.7 11	0.35 18				
x1528.31 22	0.71 9				
x1529.8 4	0.49 16				
x1531.6 3	0.53 8				
x1535.08 23	0.54 8				
x1541.1 9	0.30 15				
x1542.5 6	0.54 10				
x1553.3 3	0.37 7				
x1561.24 22	0.48 7				
x1567.9 4	0.41 12				
x1586.14 21	0.75 9				
x1604.70 15	0.21 7				
x1610.76 13	0.30 9				
x1665.7 5	0.74 17				
x1702.4 6	0.78 18				
x1717.3 3	1.30 18				
x1722.5 3	0.99 17				
x1729.2 5	0.66 17				
5055.2 3	0.52 5	(6454.47)	$1/2^+$	1399.2	
5074.9 3	1.4 5	(6454.47)	$1/2^+$	1379.343	$3/2^-$
5096.4	4.36 25	(6454.47)	$1/2^+$	1357.936	$1/2^-$,$3/2^-$
5103.9 10	0.26 8	(6454.47)	$1/2^+$	1350.5	
5117.8 5	0.47 8	(6454.47)	$1/2^+$	1336.6	
5135.2 2	1.77 12	(6454.47)	$1/2^+$	1319.2	
5151.3 2	1.43 11	(6454.47)	$1/2^+$	1302.921	$3/2^-$
5261.9 2	0.29 3	(6454.47)	$1/2^+$	1192.5	
5270.8 6	0.64 4	(6454.47)	$1/2^+$	1183.6	
5275.0 4	0.14 3	(6454.47)	$1/2^+$	1178.328	$5/2,7/2^-$
5294.0 5	0.19 3	(6454.47)	$1/2^+$	1160.4	
5306.5 2	0.41 3	(6454.47)	$1/2^+$	1147.9	
5312.8 3	0.243 21	(6454.47)	$1/2^+$	1141.6	
5321.8 5	0.120 21	(6454.47)	$1/2^+$	1132.6	
5332.1 3	0.66 7	(6454.47)	$1/2^+$	1122.3	
5356.0 2	0.73 4	(6454.47)	$1/2^+$	1098.226	$3/2^+$
5382.9 3	0.54 5	(6454.47)	$1/2^+$	1071.265	$3/2^-$
5594.8 4	0.59 8	(6454.47)	$1/2^+$	858.7938	$3/2^-$
5649.0 7	0.28 7	(6454.47)	$1/2^+$	804.389	$3/2^-$
5677.6 2	3.21 19	(6454.47)	$1/2^+$	777.1277	$1/2^-$
5844.6 2	1.46 13	(6454.47)	$1/2^+$	609.8328	$5/2^+$
6035.95 13	2.68 14	(6454.47)	$1/2^+$	418.2349	$3/2^-$
6087.25 13	18.3 10	(6454.47)	$1/2^+$	366.9755	$1/2^-$
6379.5 2	0.178 13	(6454.47)	$1/2^+$	74.5671	$3/2^-$

Continued on next page (footnotes at end of table)

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

$\gamma(^{161}Dy)$ (continued)

† From 1986Sc16, unless otherwise noted. A systematic uncertainty of 10 ppm must be added (1986Sc16) to the quoted value to obtain the total uncertainty. Other: 1977Be03.

‡ From 1986Sc16, unless otherwise noted. The 20% systematic uncertainty noted by 1986Sc16 is included here in the normalization factor. Other: 1977Be03. Note that 1977Be03 quote their γ-intensity data in units of barns and point out that there may be large errors in some of these data and in the normalization.

From ce data of 1986Sc16.

@ Values obtained as discussed in the Adopted Gammas data set. Those from (n,γ) are deduced from L-subshell ratios reported by 1986Sc16 from a study of the conversion electrons associated with the capture γ rays.

& From 1977Be03.

a For intensity per 100 neutron captures, multiply by 1.0 *2*.

b Multiply placed with undivided intensity.

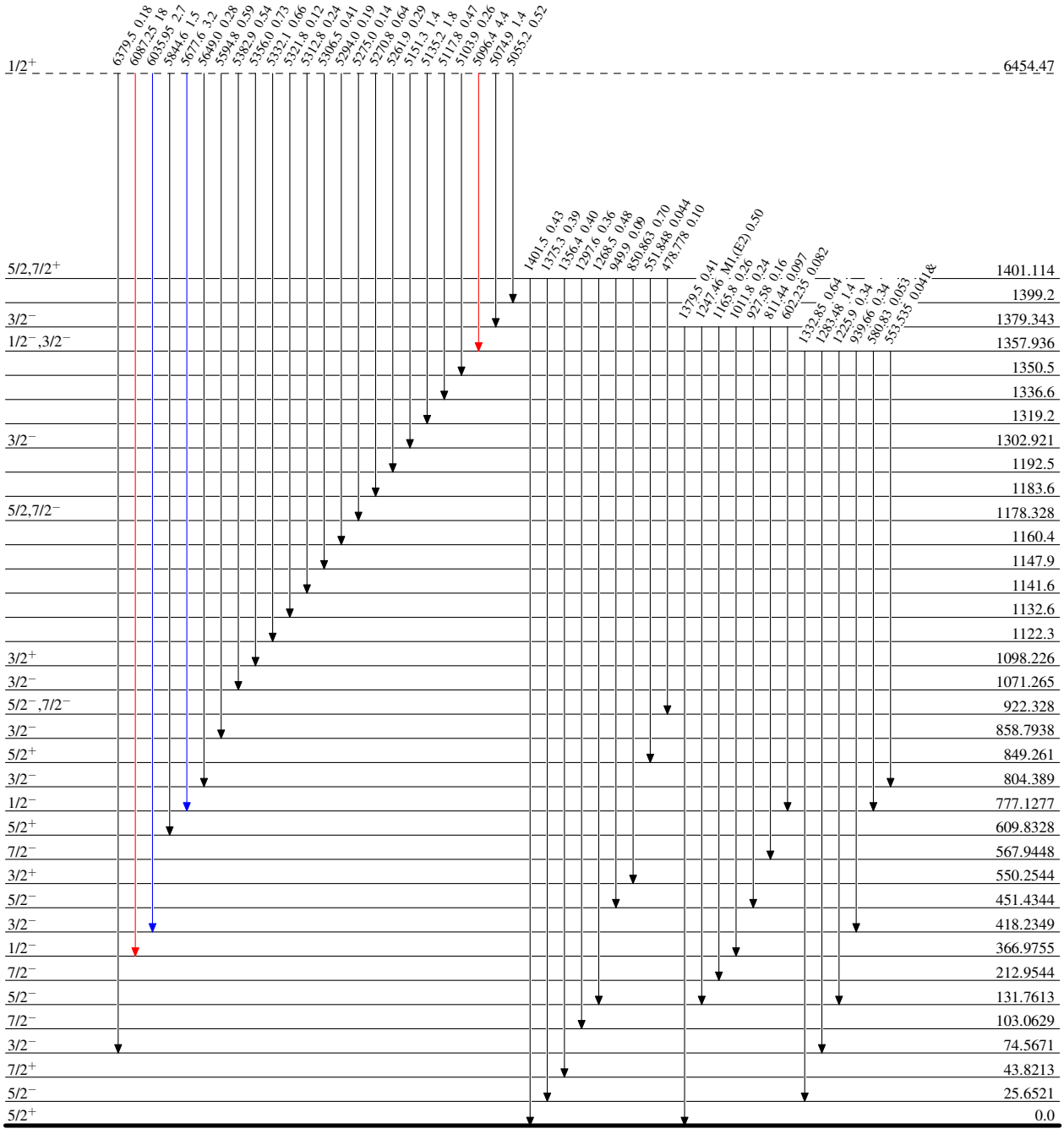
x γ ray not placed in level scheme.

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03

Level Scheme

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

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



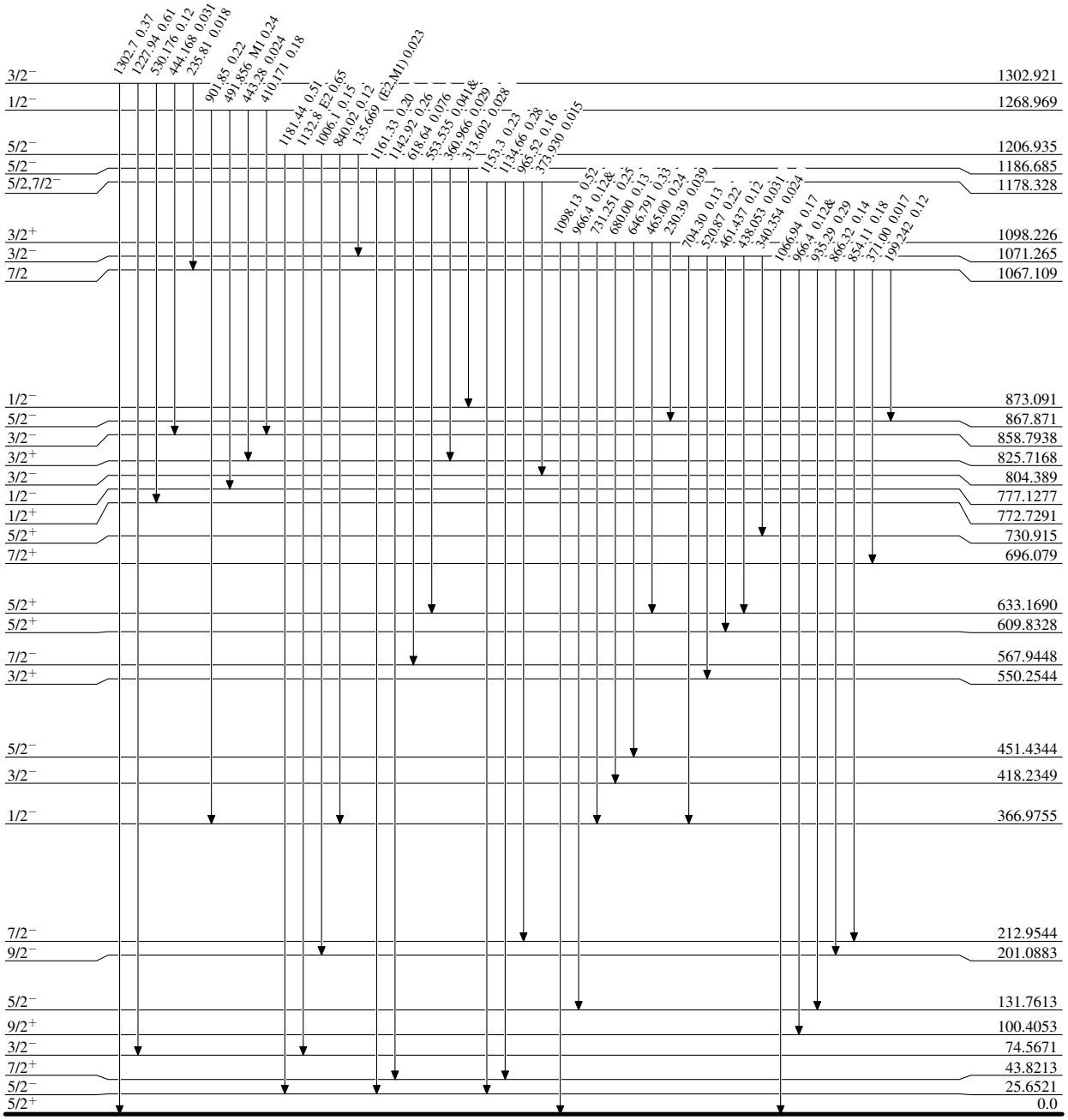
$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

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



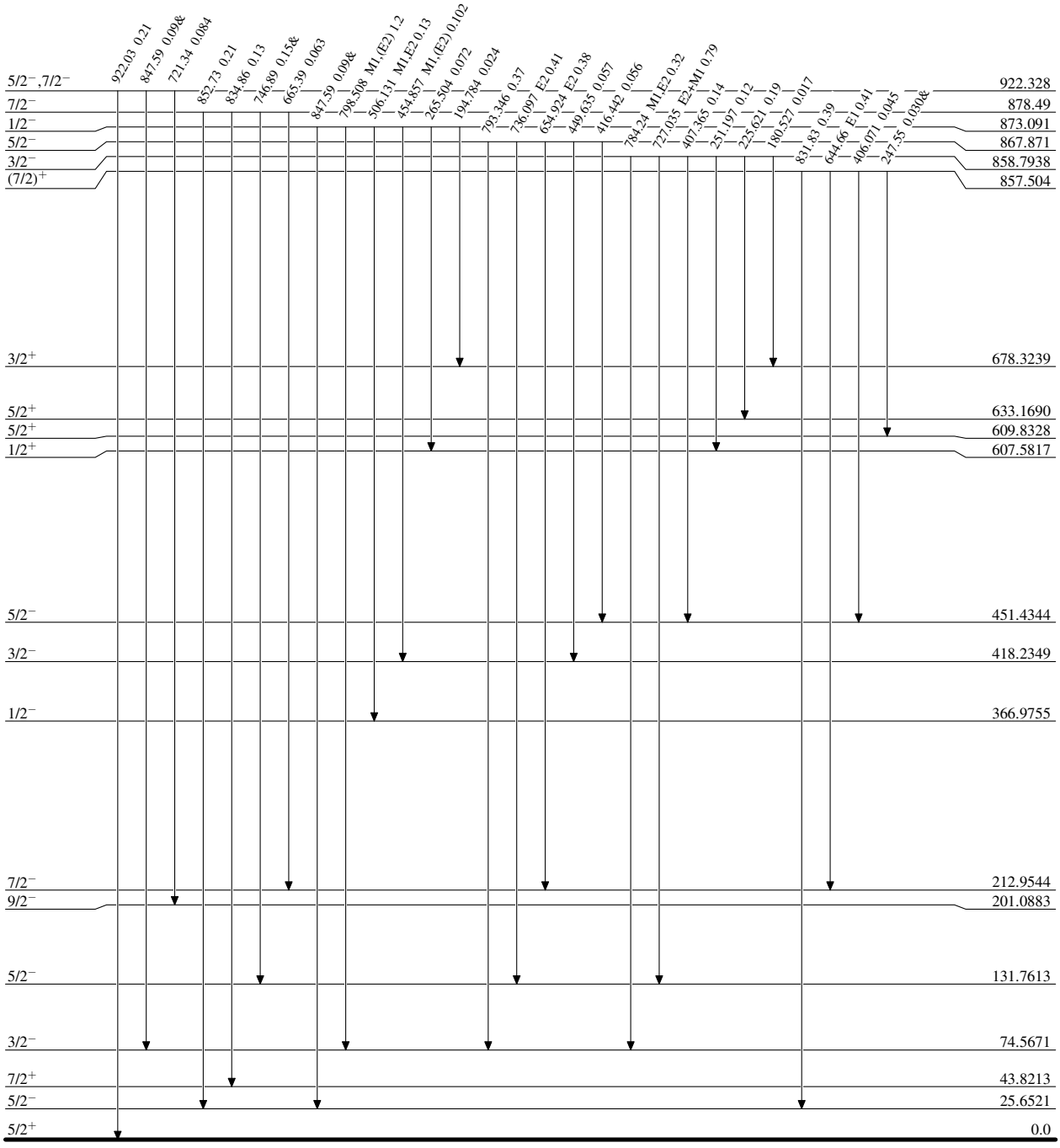
$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

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



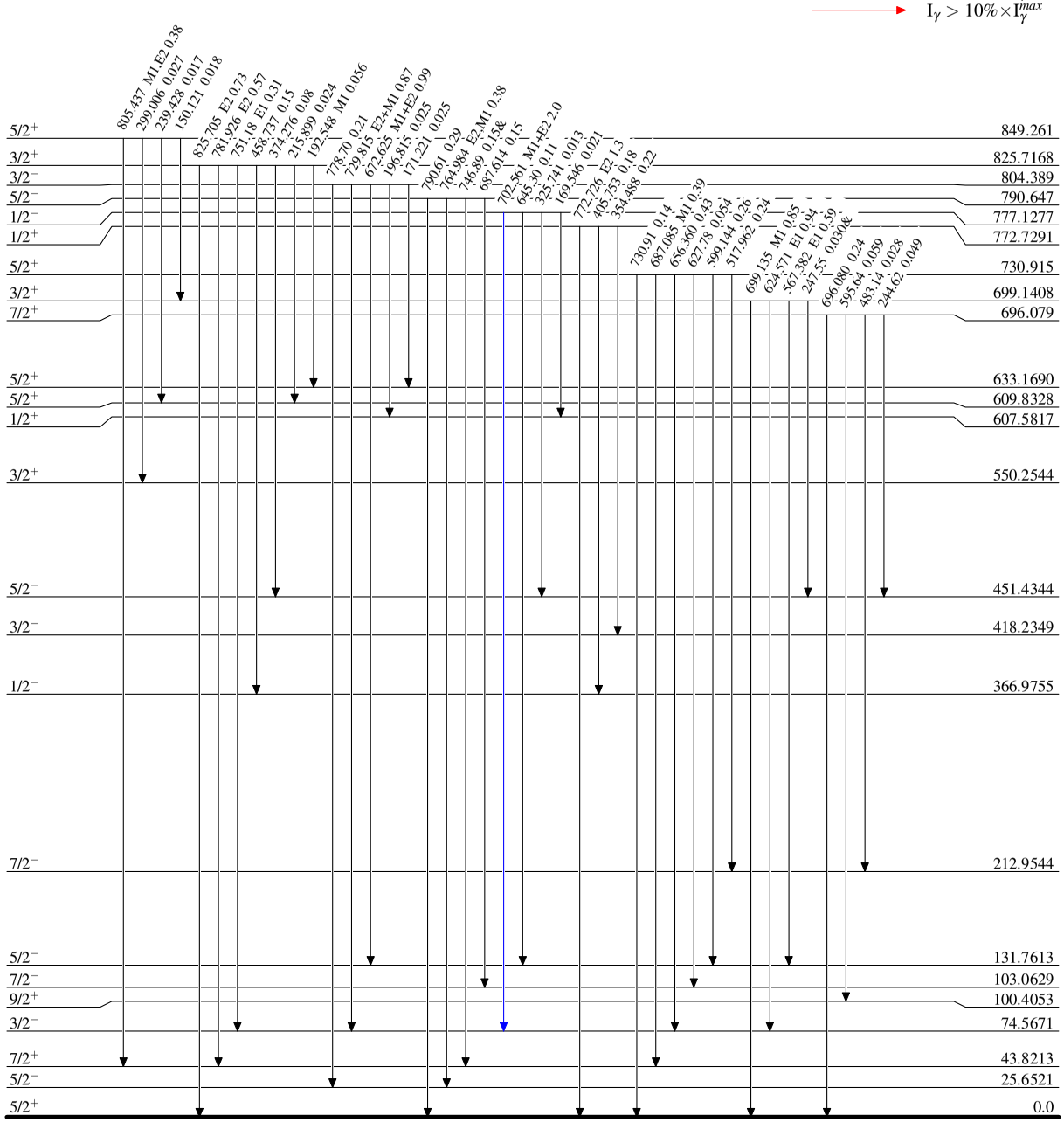
$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

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



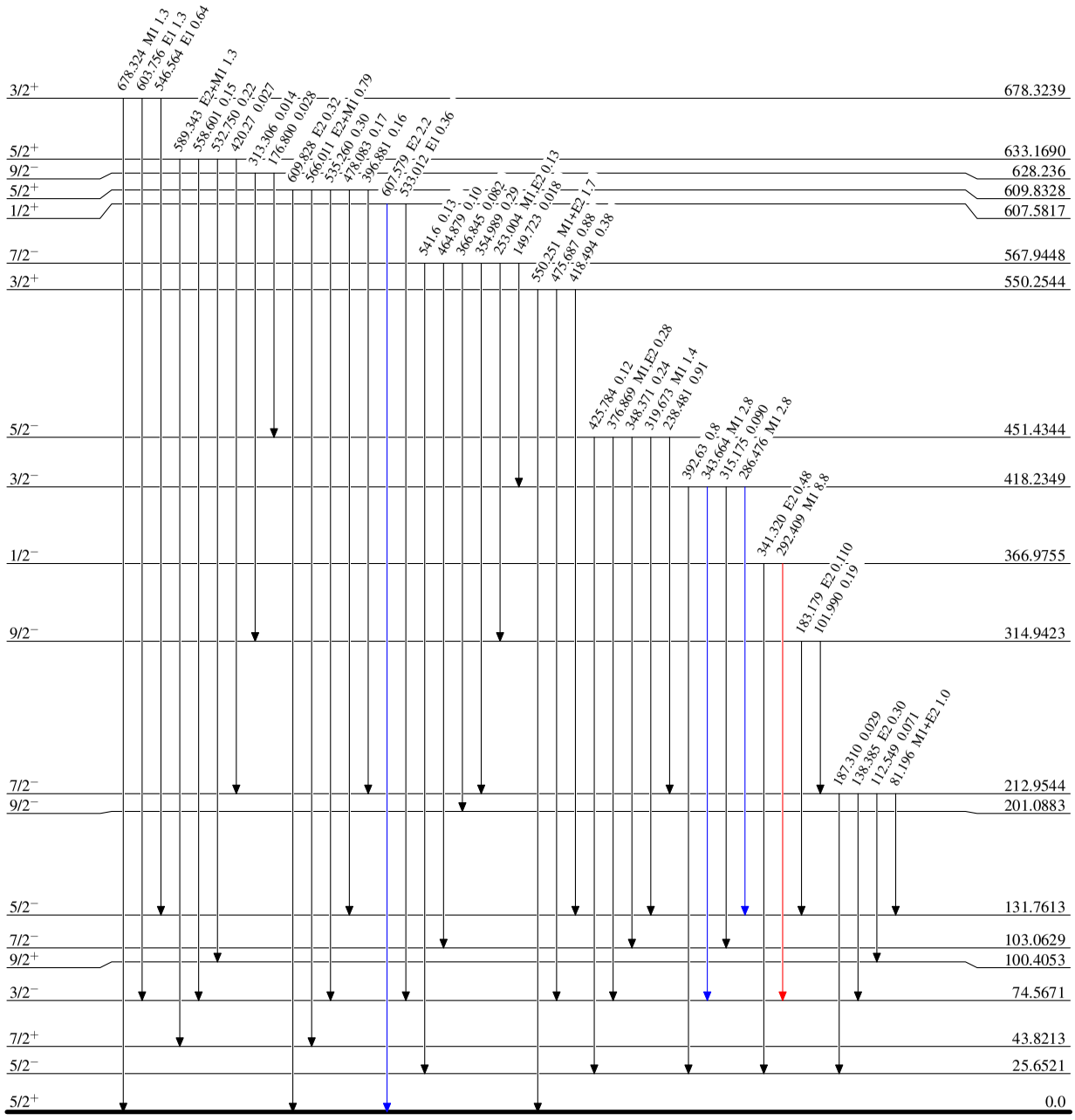
$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

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

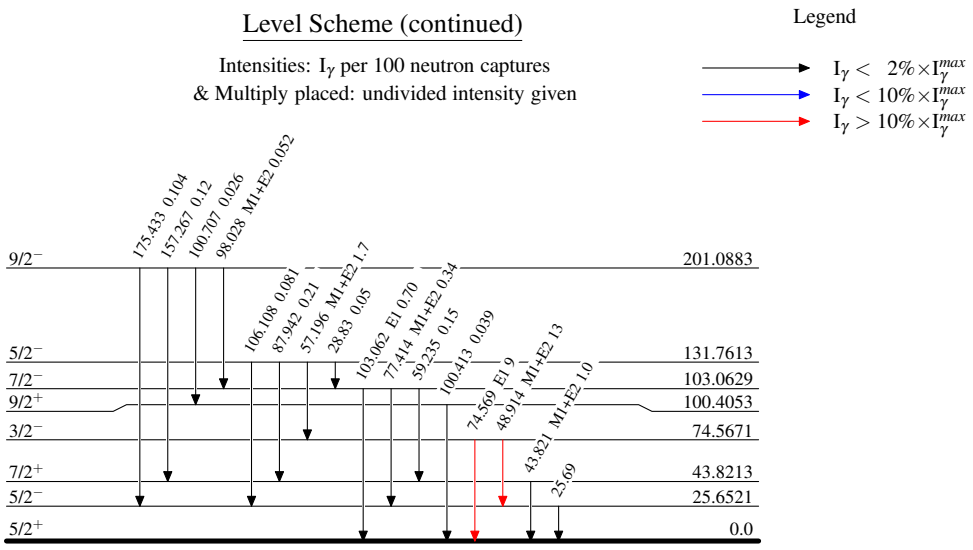


$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03

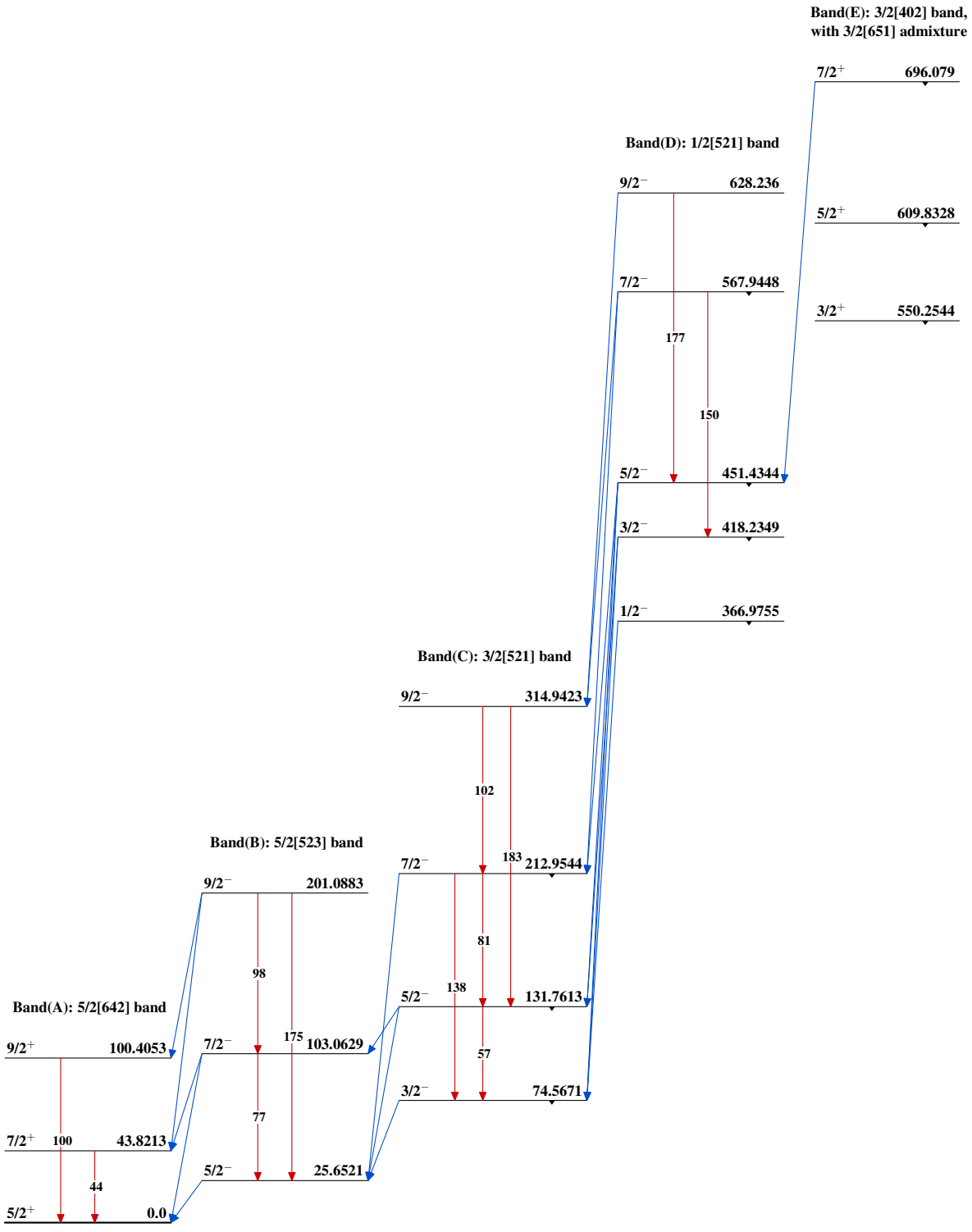
Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given



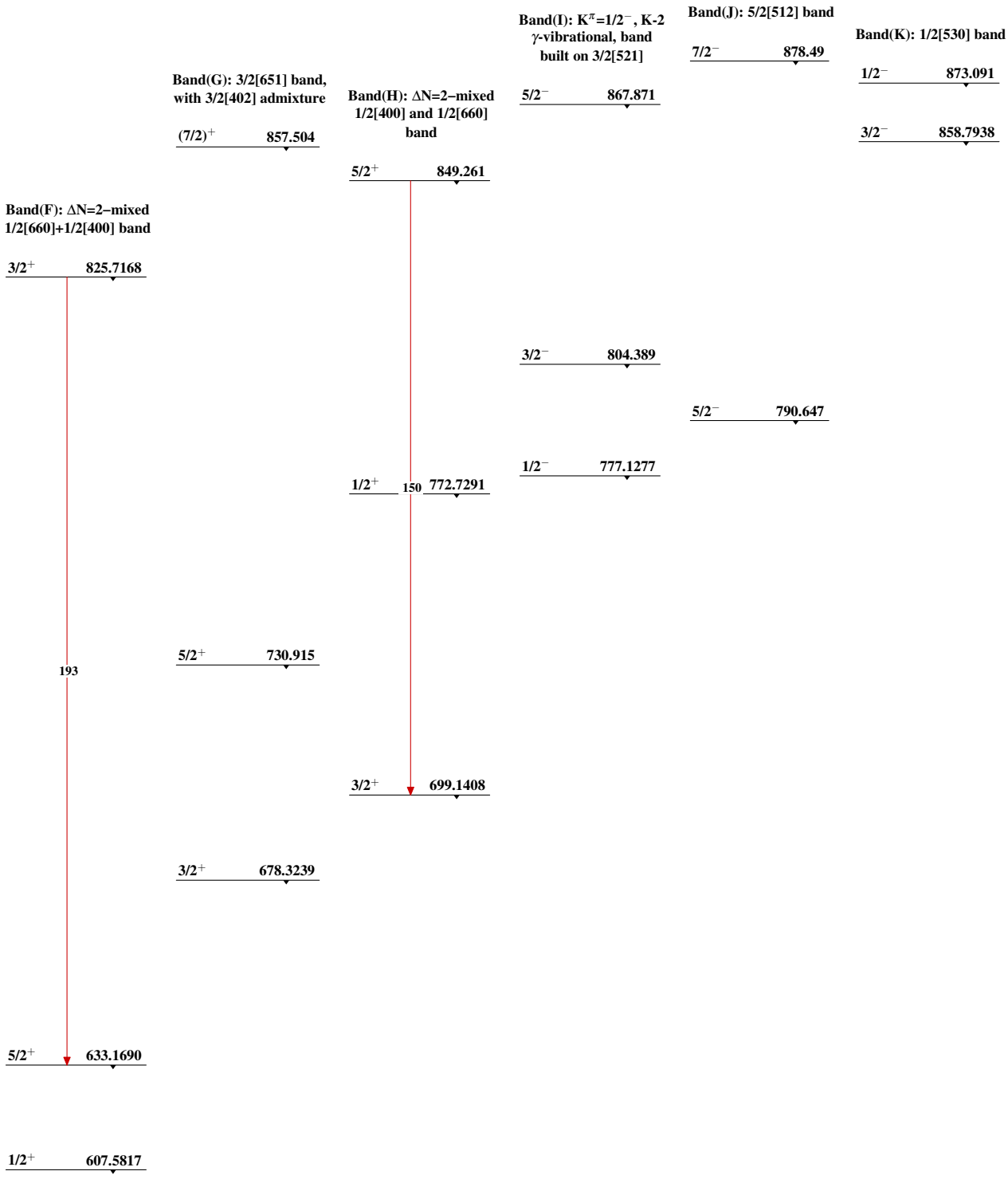
$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03



$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)



$^{161}_{66}Dy_{95}$

^{160}Dy(n,γ) E=th 1986Sc16,1977Be03 (continued)

Band(L): 1/2[510] band

3/2$^-$ 1302.921

1/2$^-$ 1268.969

$^{161}_{66}Dy_{95}$