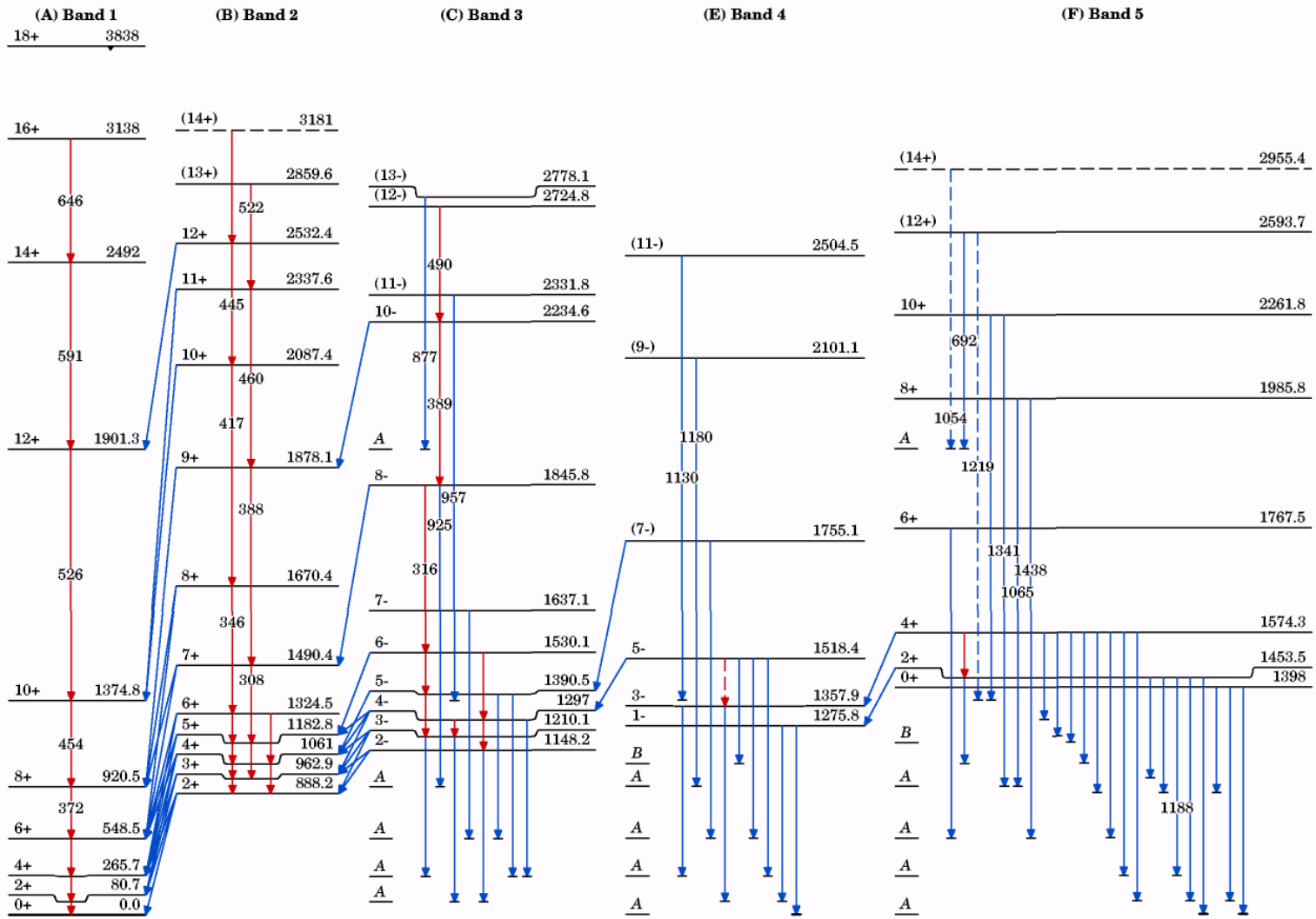
Samples of Drawings and Tables for Nuclear Data Sheets

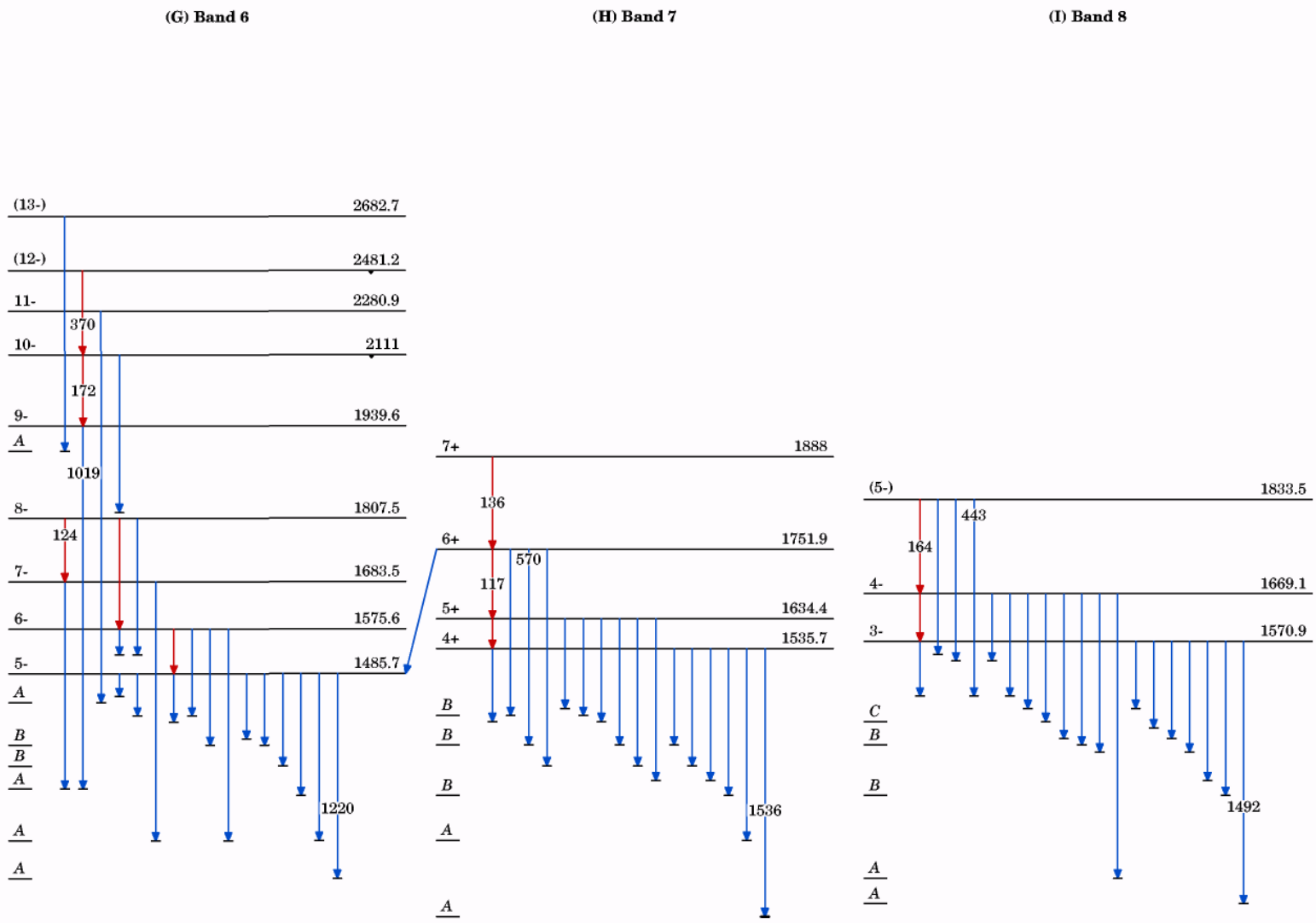
Project between

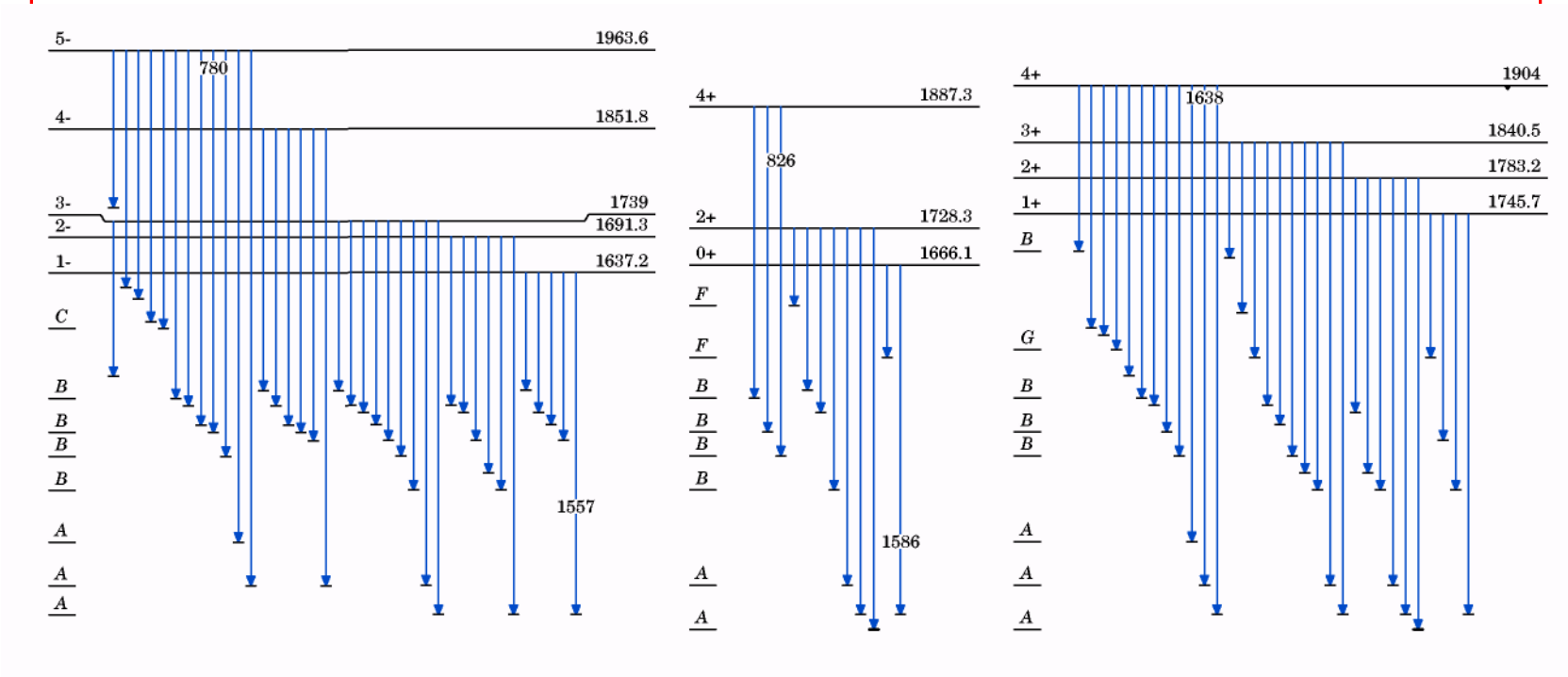
NNDC, BNL & Roy Zywina.

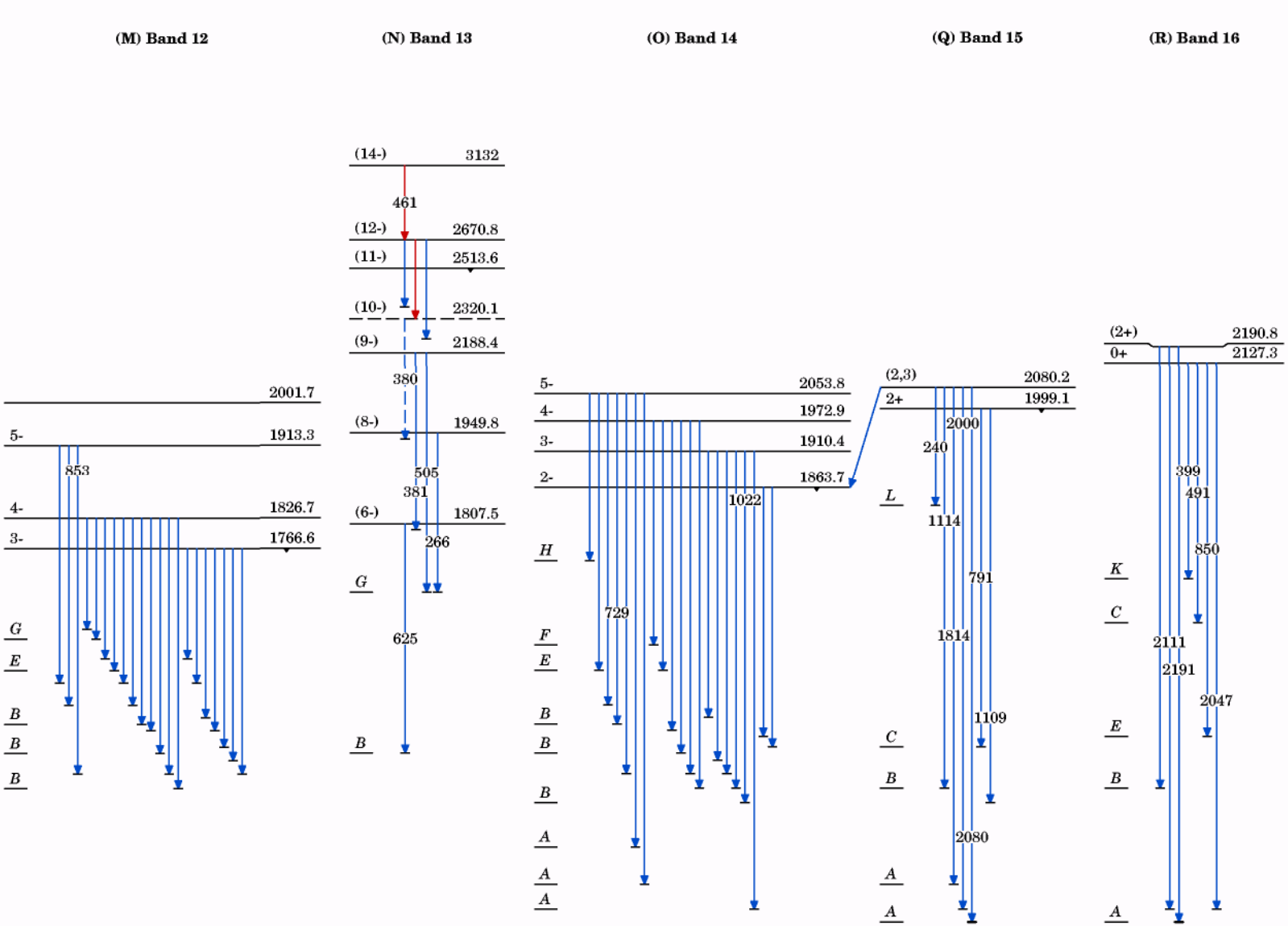
(Work Started March 2007)

^{162}Dy bands

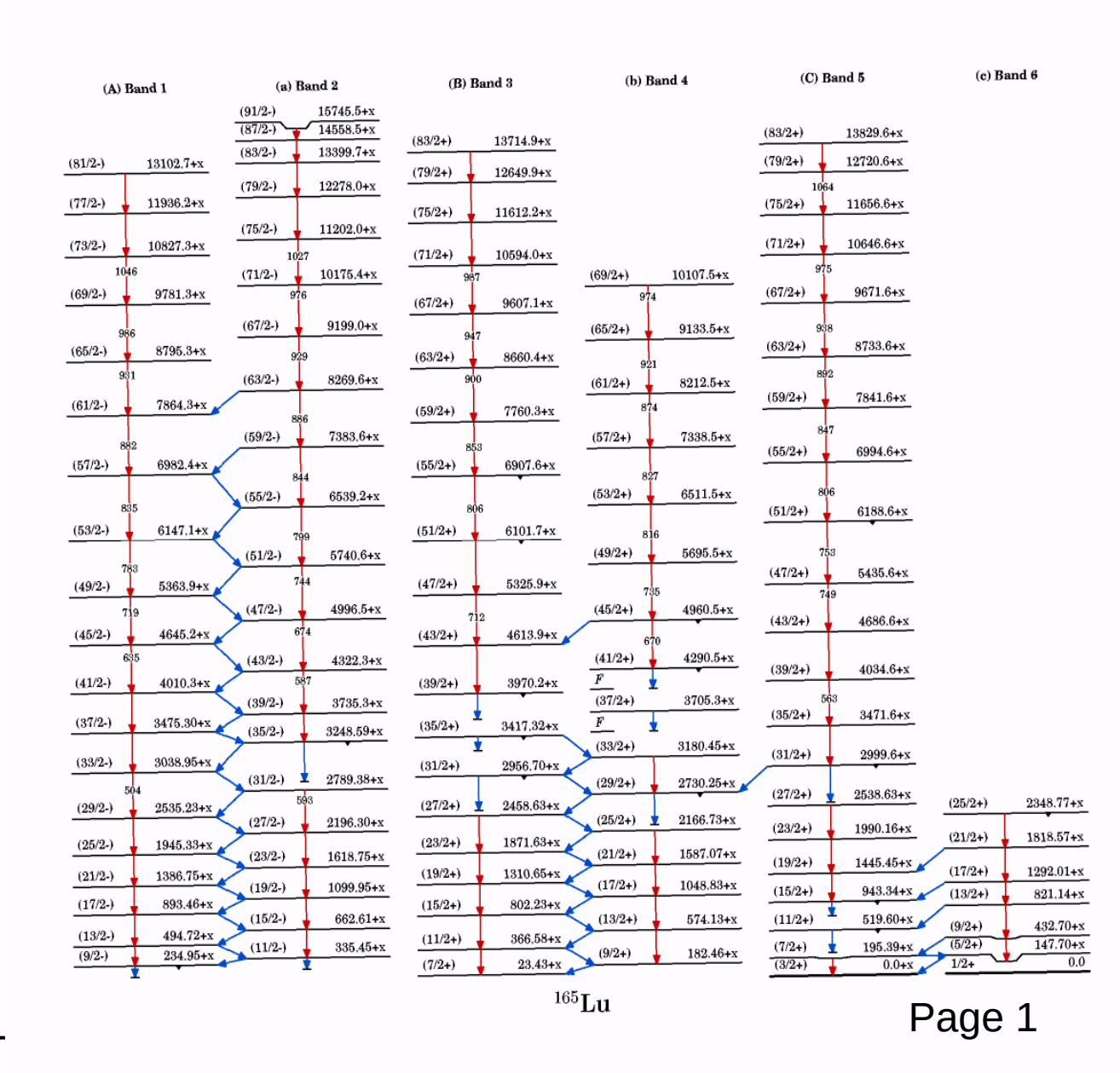

(A) Band 1
(B) Band 2
(C) Band 3
(E) Band 4
(F) Band 5
18+ 3838
16+ 3138
646
14+ 2492
591
12+ 1901.3
526
10+ 1374.8
454
8+ 920.5
372
6+ 548.5
4+ 265.7
2+ 80.7
0+ 0.0
(14+) 3181
(13+) 2859.6
522
12+ 2532.4
11+ 2337.6
445
10+ 2087.4
460
417
9+ 1878.1
388
8+ 1670.4
346
7+ 1490.4
308
6+ 1324.5
5+ 1182.8
4+ 1061
3+ 962.9
2+ 888.2
(13-) 2778.1
(12-) 2724.8
490
(11-) 2331.8
10- 2234.6
877
389
A
8- 1845.8
957
925
316
7- 1637.1
6- 1530.1
5- 1390.5
4- 1297
3- 1210.1
2- 1148.2
A
A
A
A
(11-) 2504.5
(9-) 2101.1
1180
1130
(7-) 1755.1
5- 1518.4
3- 1357.9
1- 1275.8
B
A
A
A
A
(14+) 2955.4
(12+) 2593.7
10+ 2261.8
692
8+ 1985.8
1054
A
1219
6+ 1767.5
1341
1438
1065
4+ 1574.3
2+ 1453.5
0+ 1398
B
A
1188
A
A
A

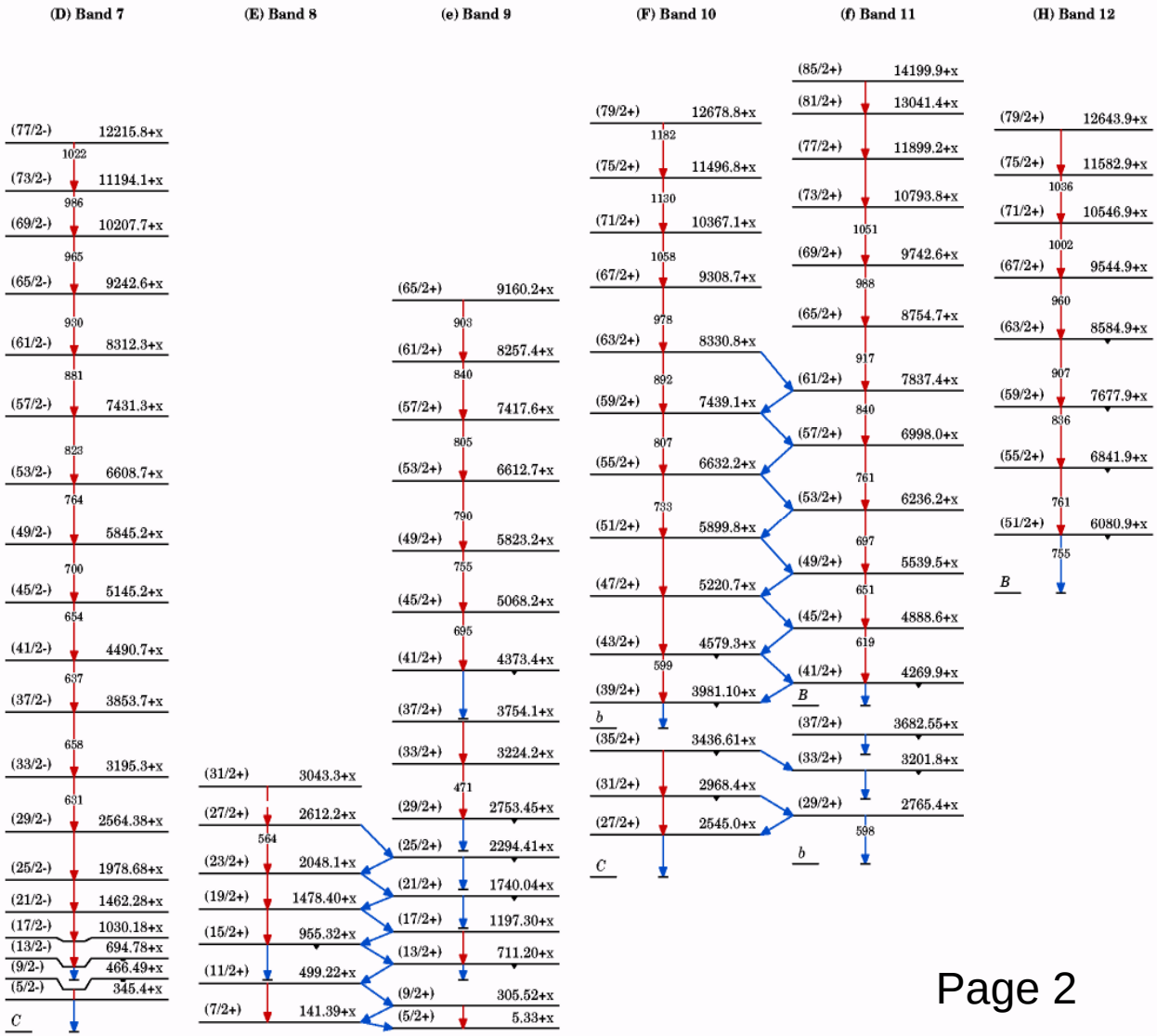

(G) Band 6
(H) Band 7
(I) Band 8
(13-)
2682.7
(12-)
2481.2
11-
2280.9
10-
2111
9-
1939.6
8-
1807.5
7-
1683.5
6-
1575.6
5-
1485.7
370
172
1019
124
1220
7+
1888
6+
1751.9
5+
1634.4
4+
1535.7
136
570
117
1536
(5-)
1833.5
4-
1669.1
3-
1570.9
164
443
1492
A
B
C


5-
1963.6
780
4-
1851.8
3-
1739
2-
1691.3
1-
1637.2
C
B
B
B
B
1557
A
A
A
4+
1887.3
826
2+
1728.3
0+
1666.1
F
F
B
B
B
B
1586
A
A
4+
1904
1638
3+
1840.5
2+
1783.2
1+
1745.7
B
G
B
B
B
A
A
A


(M) Band 12
2001.7
5-
1913.3
853
4-
1826.7
3-
1766.6
G
E
B
B
B
(N) Band 13
(14-)
3132
461
(12-)
2670.8
(11-)
2513.6
(10-)
2320.1
(9-)
2188.4
380
(8-)
1949.8
505
381
(6-)
1807.5
266
G
625
B
(O) Band 14
5-
2053.8
4-
1972.9
3-
1910.4
2-
1863.7
1022
H
729
F
E
B
B
B
A
A
A
(Q) Band 15
(2,3)
2080.2
2+
1999.1
2000
240
L
1114
791
1814
1109
C
B
2080
A
A
(R) Band 16
(2+)
2190.8
0+
2127.3
399
491
850
K
C
2111
2191
2047
E
B
A

Sample of Band Drawings for ^{165}Lu




(D) Band 7
(77/2-) 12215.8+x
1022
(73/2-) 11194.1+x
986
(69/2-) 10207.7+x
965
(65/2-) 9242.6+x
930
(61/2-) 8312.3+x
881
(57/2-) 7431.3+x
823
(53/2-) 6608.7+x
764
(49/2-) 5845.2+x
700
(45/2-) 5145.2+x
654
(41/2-) 4490.7+x
637
(37/2-) 3853.7+x
658
(33/2-) 3195.3+x
631
(29/2-) 2564.38+x
(25/2-) 1978.68+x
(21/2-) 1462.28+x
(17/2-) 1030.18+x
(13/2-) 694.78+x
(9/2-) 466.49+x
(5/2-) 345.4+x
C
(E) Band 8
(31/2+) 3043.3+x
(27/2+) 2612.2+x
564
(23/2+) 2048.1+x
(19/2+) 1478.40+x
(15/2+) 955.32+x
(11/2+) 499.22+x
(7/2+) 141.39+x
(e) Band 9
(65/2+) 9160.2+x
903
(61/2+) 8257.4+x
840
(57/2+) 7417.6+x
805
(53/2+) 6612.7+x
790
(49/2+) 5823.2+x
755
(45/2+) 5068.2+x
695
(41/2+) 4373.4+x
(37/2+) 3754.1+x
(33/2+) 3224.2+x
471
(29/2+) 2753.45+x
(25/2+) 2294.41+x
(21/2+) 1740.04+x
(17/2+) 1197.30+x
(13/2+) 711.20+x
(9/2+) 305.52+x
(5/2+) 5.33+x
(F) Band 10
(79/2+) 12678.8+x
1182
(75/2+) 11496.8+x
1130
(71/2+) 10367.1+x
1058
(67/2+) 9308.7+x
978
(63/2+) 8330.8+x
892
(59/2+) 7439.1+x
807
(55/2+) 6632.2+x
733
(51/2+) 5899.8+x
(47/2+) 5220.7+x
(43/2+) 4579.3+x
599
(39/2+) 3981.10+x
b
(35/2+) 3436.61+x
(31/2+) 2968.4+x
(27/2+) 2545.0+x
C
(f) Band 11
(85/2+) 14199.9+x
(81/2+) 13041.4+x
(77/2+) 11899.2+x
(73/2+) 10793.8+x
1051
(69/2+) 9742.6+x
988
(65/2+) 8754.7+x
917
(61/2+) 7837.4+x
840
(57/2+) 6998.0+x
761
(53/2+) 6236.2+x
697
(49/2+) 5539.5+x
651
(45/2+) 4888.6+x
619
(41/2+) 4269.9+x
B
(37/2+) 3682.55+x
(33/2+) 3201.8+x
(29/2+) 2765.4+x
598
b
(H) Band 12
(79/2+) 12643.9+x
(75/2+) 11582.9+x
1036
(71/2+) 10546.9+x
1002
(67/2+) 9544.9+x
960
(63/2+) 8584.9+x
907
(59/2+) 7677.9+x
836
(55/2+) 6841.9+x
761
(51/2+) 6080.9+x
755
B

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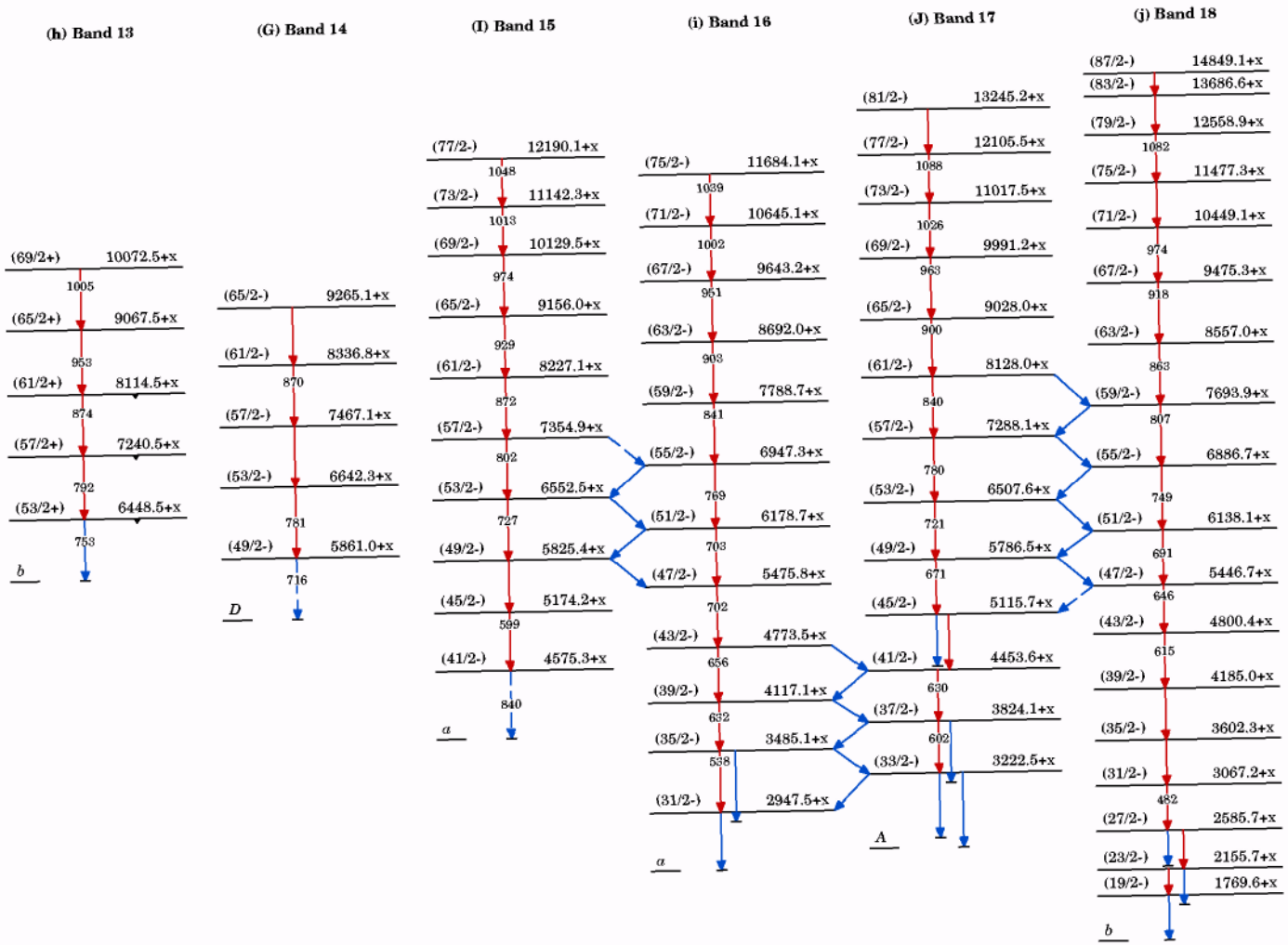
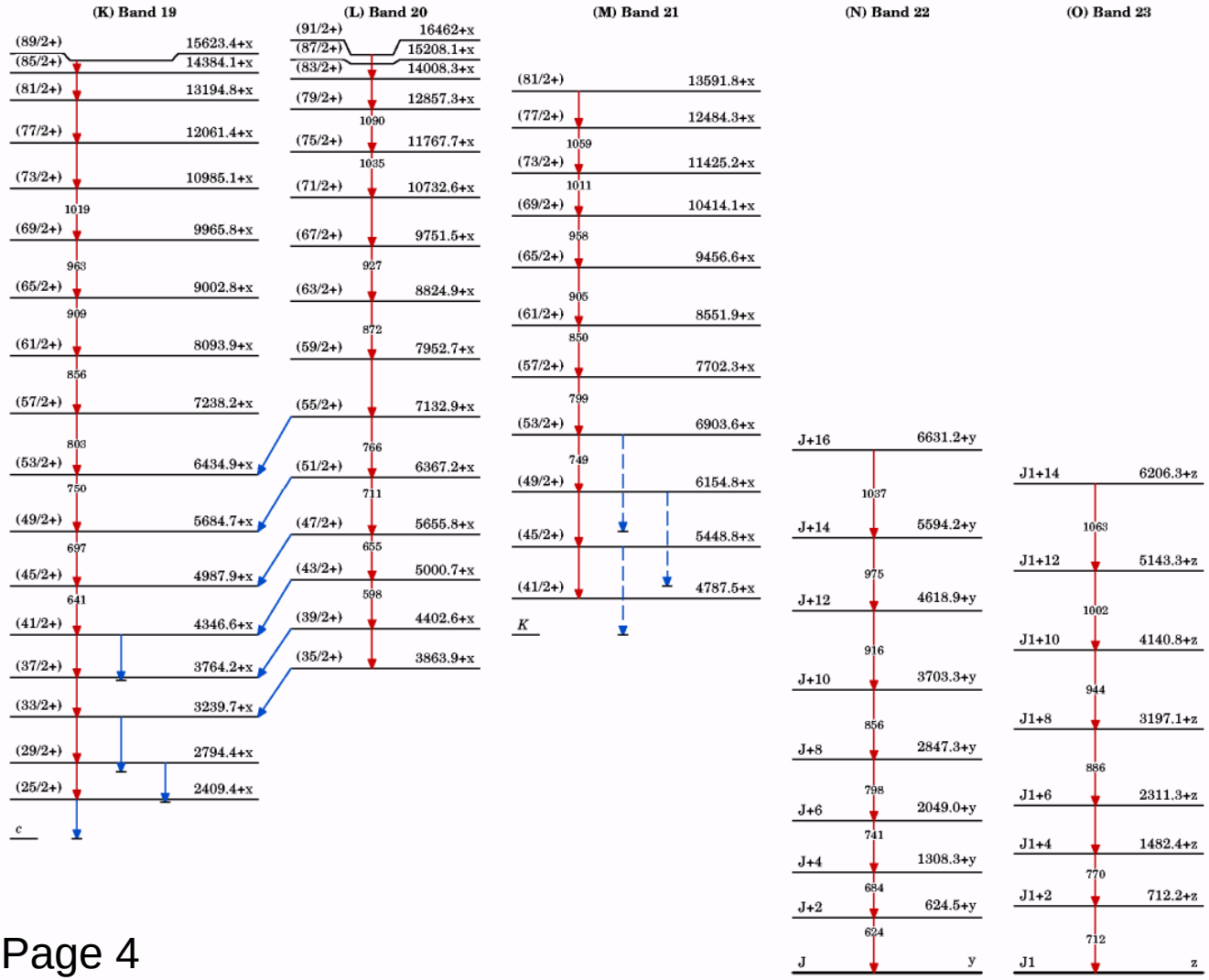

(h) Band 13
(69/2+) 10072.5+x
1005
(65/2+) 9067.5+x
953
(61/2+) 8114.5+x
874
(57/2+) 7240.5+x
792
(53/2+) 6448.5+x
753
b
(G) Band 14
(65/2-) 9265.1+x
870
(61/2-) 8336.8+x
781
(57/2-) 7467.1+x
716
(53/2-) 6642.3+x
(49/2-) 5861.0+x
D
(I) Band 15
(77/2-) 12190.1+x
1048
(73/2-) 11142.3+x
1013
(69/2-) 10129.5+x
974
(65/2-) 9156.0+x
929
(61/2-) 8227.1+x
872
(57/2-) 7354.9+x
802
(53/2-) 6552.5+x
727
(49/2-) 5825.4+x
(45/2-) 5174.2+x
599
(41/2-) 4575.3+x
840
a
(i) Band 16
(75/2-) 11684.1+x
1039
(71/2-) 10645.1+x
1002
(67/2-) 9643.2+x
951
(63/2-) 8692.0+x
903
(59/2-) 7788.7+x
841
(55/2-) 6947.3+x
769
(51/2-) 6178.7+x
703
(47/2-) 5475.8+x
702
(43/2-) 4773.5+x
656
(39/2-) 4117.1+x
632
(35/2-) 3485.1+x
538
(31/2-) 2947.5+x
a
(J) Band 17
(81/2-) 13245.2+x
1088
(77/2-) 12105.5+x
1026
(73/2-) 11017.5+x
963
(69/2-) 9991.2+x
900
(65/2-) 9028.0+x
840
(61/2-) 8128.0+x
780
(57/2-) 7288.1+x
721
(53/2-) 6507.6+x
671
(49/2-) 5786.5+x
630
(45/2-) 5115.7+x
602
(41/2-) 4453.6+x
(37/2-) 3824.1+x
(33/2-) 3222.5+x
A
(j) Band 18
(87/2-) 14849.1+x
1082
(83/2-) 13686.6+x
974
(79/2-) 12558.9+x
918
(75/2-) 11477.3+x
863
(71/2-) 10449.1+x
807
(67/2-) 9475.3+x
749
(63/2-) 8557.0+x
691
(59/2-) 7693.9+x
646
(55/2-) 6886.7+x
615
(51/2-) 6138.1+x
(47/2-) 5446.7+x
(43/2-) 4800.4+x
(39/2-) 4185.0+x
482
(35/2-) 3602.3+x
(31/2-) 3067.2+x
(27/2-) 2585.7+x
(23/2-) 2155.7+x
(19/2-) 1769.6+x
b

^{165}Lu


(K) Band 19
(89/2+) 15623.4+x
(85/2+) 14384.1+x
(81/2+) 13194.8+x
(77/2+) 12061.4+x
(73/2+) 10985.1+x
1019
(69/2+) 9965.8+x
963
(65/2+) 9002.8+x
909
(61/2+) 8093.9+x
856
(57/2+) 7238.2+x
803
(53/2+) 6434.9+x
750
(49/2+) 5684.7+x
697
(45/2+) 4987.9+x
641
(41/2+) 4346.6+x
(37/2+) 3764.2+x
(33/2+) 3239.7+x
(29/2+) 2794.4+x
(25/2+) 2409.4+x
c
(L) Band 20
(91/2+) 16462+x
(87/2+) 15208.1+x
(83/2+) 14008.3+x
(79/2+) 12857.3+x
1090
(75/2+) 11767.7+x
1035
(71/2+) 10732.6+x
(67/2+) 9751.5+x
927
(63/2+) 8824.9+x
872
(59/2+) 7952.7+x
(55/2+) 7132.9+x
766
(51/2+) 6367.2+x
711
(47/2+) 5655.8+x
655
(43/2+) 5000.7+x
598
(39/2+) 4402.6+x
(35/2+) 3863.9+x
(M) Band 21
(81/2+) 13591.8+x
(77/2+) 12484.3+x
1059
(73/2+) 11425.2+x
1011
(69/2+) 10414.1+x
958
(65/2+) 9456.6+x
905
(61/2+) 8551.9+x
850
(57/2+) 7702.3+x
799
(53/2+) 6903.6+x
749
(49/2+) 6154.8+x
(45/2+) 5448.8+x
(41/2+) 4787.5+x
K
(N) Band 22
J+16 6631.2+y
1037
J+14 5594.2+y
975
J+12 4618.9+y
916
J+10 3703.3+y
856
J+8 2847.3+y
798
J+6 2049.0+y
741
J+4 1308.3+y
684
J+2 624.5+y
624
J y
(O) Band 23
J1+14 6206.3+z
1063
J1+12 5143.3+z
1002
J1+10 4140.8+z
944
J1+8 3197.1+z
886
J1+6 2311.3+z
J1+4 1482.4+z
770
J1+2 712.2+z
712
J1 z

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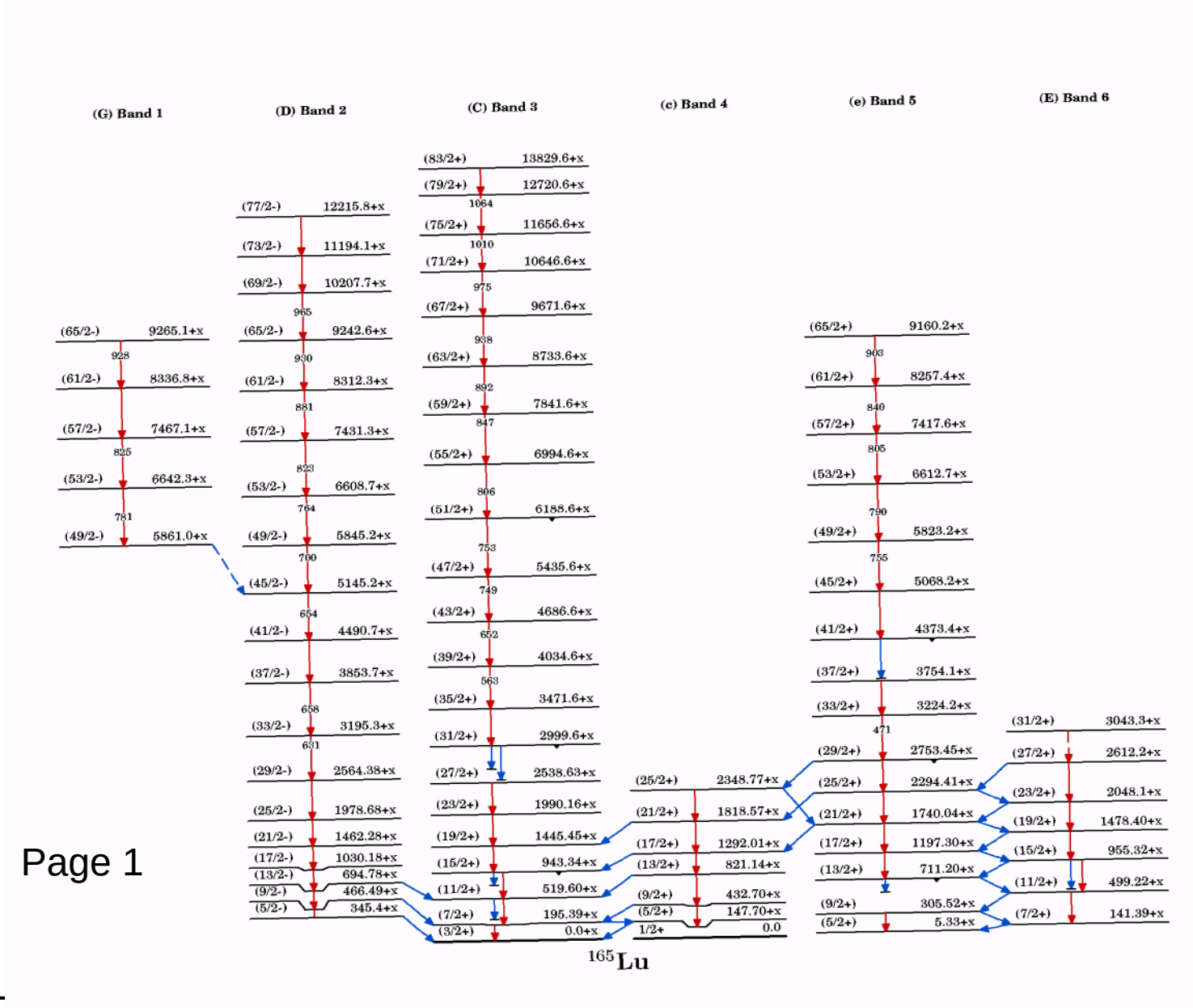
Same nuclide: bands re-ordered as in the original paper

2004Sc14: Nucl. Phys. **A 735**, 393 (2004)



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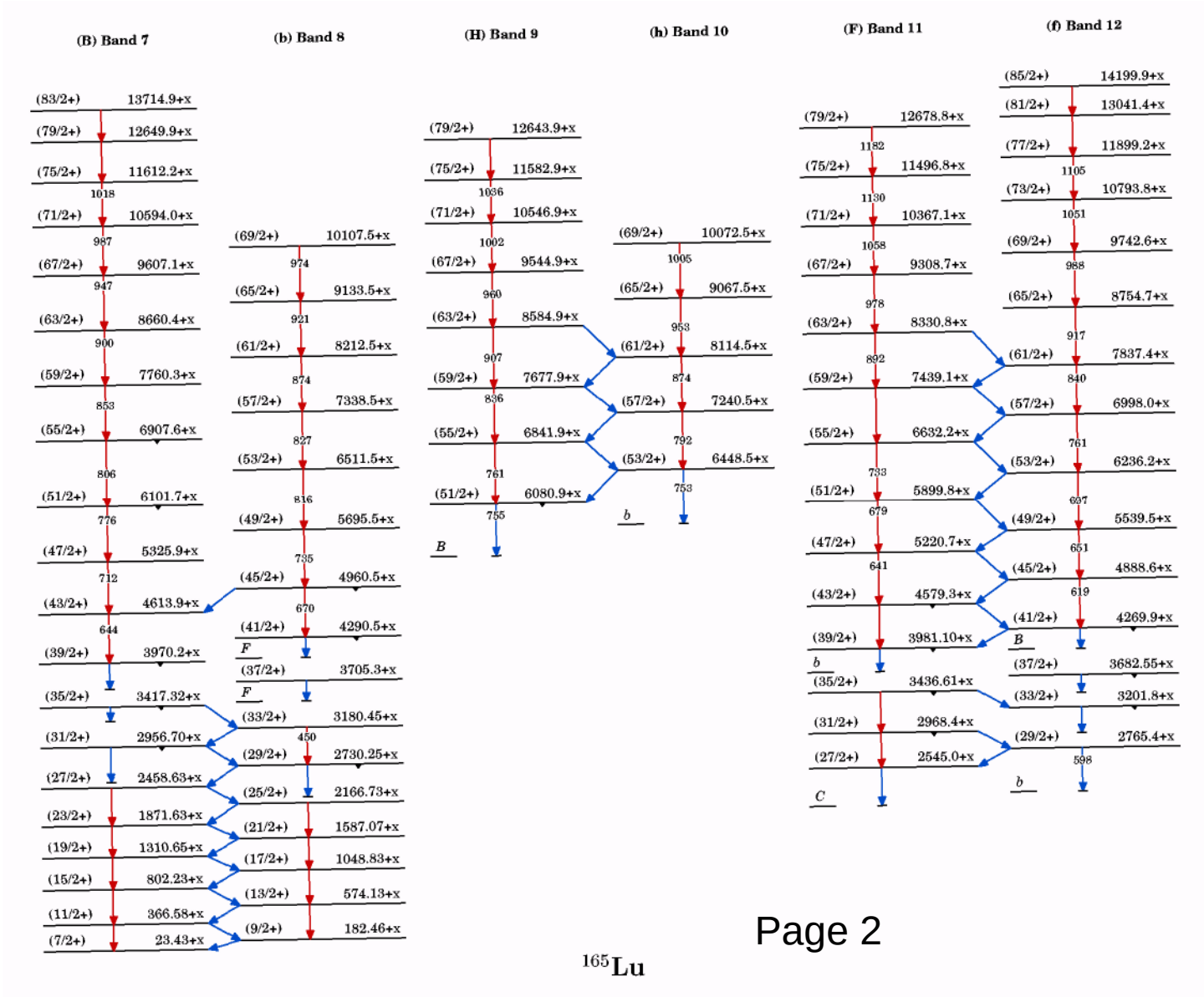
(B) Band 7
(83/2+) 13714.9+x
(79/2+) 12649.9+x
(75/2+) 11612.2+x
(71/2+) 10594.0+x
(67/2+) 9607.1+x
(63/2+) 8660.4+x
(59/2+) 7760.3+x
(55/2+) 6907.6+x
(51/2+) 6101.7+x
(47/2+) 5325.9+x
(43/2+) 4613.9+x
(39/2+) 3970.2+x
(35/2+) 3417.32+x
(31/2+) 2956.70+x
(27/2+) 2458.63+x
(23/2+) 1871.63+x
(19/2+) 1310.65+x
(15/2+) 802.23+x
(11/2+) 366.58+x
(7/2+) 23.43+x
1018
987
947
900
853
806
776
712
644
(b) Band 8
(69/2+) 10107.5+x
(65/2+) 9133.5+x
(61/2+) 8212.5+x
(57/2+) 7338.5+x
(53/2+) 6511.5+x
(49/2+) 5695.5+x
(45/2+) 4960.5+x
(41/2+) 4290.5+x
(37/2+) 3705.3+x
(33/2+) 3180.45+x
(29/2+) 2730.25+x
(25/2+) 2166.73+x
(21/2+) 1587.07+x
(17/2+) 1048.83+x
(13/2+) 574.13+x
(9/2+) 182.46+x
974
921
874
827
816
735
670
450
F
F
(H) Band 9
(79/2+) 12643.9+x
(75/2+) 11582.9+x
(71/2+) 10546.9+x
(67/2+) 9544.9+x
(63/2+) 8584.9+x
(59/2+) 7677.9+x
(55/2+) 6841.9+x
(51/2+) 6080.9+x
1036
1002
960
907
836
761
755
B
(h) Band 10
(69/2+) 10072.5+x
(65/2+) 9067.5+x
(61/2+) 8114.5+x
(57/2+) 7240.5+x
(53/2+) 6448.5+x
1005
953
874
792
753
b
(F) Band 11
(79/2+) 12678.8+x
(75/2+) 11496.8+x
(71/2+) 10367.1+x
(67/2+) 9308.7+x
(63/2+) 8330.8+x
(59/2+) 7439.1+x
(55/2+) 6632.2+x
(51/2+) 5899.8+x
(47/2+) 5220.7+x
(43/2+) 4579.3+x
(39/2+) 3981.10+x
(35/2+) 3436.61+x
(31/2+) 2968.4+x
(27/2+) 2545.0+x
1182
1130
1058
978
892
733
679
641
b
C
(f) Band 12
(85/2+) 14199.9+x
(81/2+) 13041.4+x
(77/2+) 11899.2+x
(73/2+) 10793.8+x
(69/2+) 9742.6+x
(65/2+) 8754.7+x
(61/2+) 7837.4+x
(57/2+) 6998.0+x
(53/2+) 6236.2+x
(49/2+) 5539.5+x
(45/2+) 4888.6+x
(41/2+) 4269.9+x
(37/2+) 3682.55+x
(33/2+) 3201.8+x
(29/2+) 2765.4+x
1105
1051
988
917
840
761
697
651
619
598
B
b

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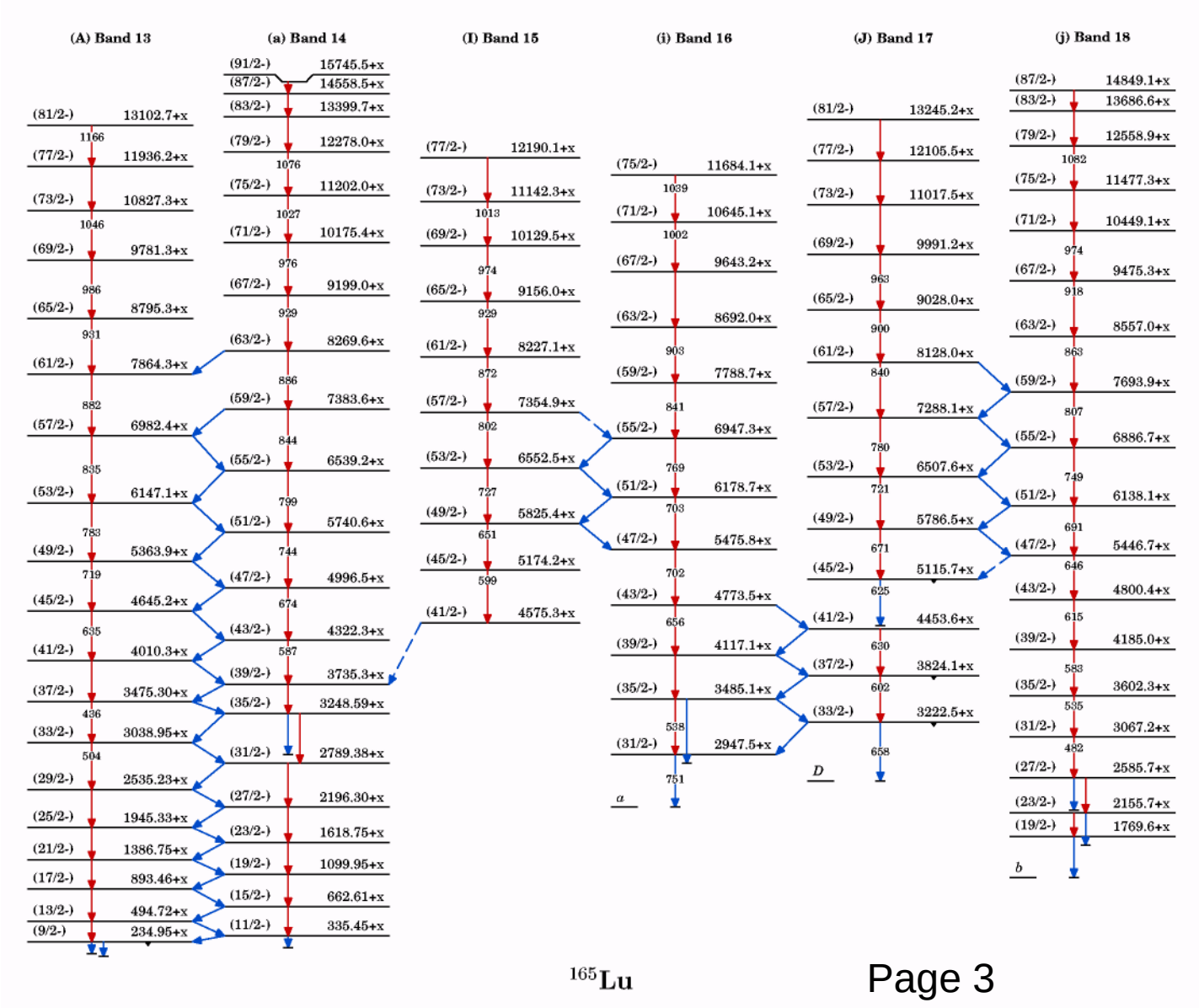
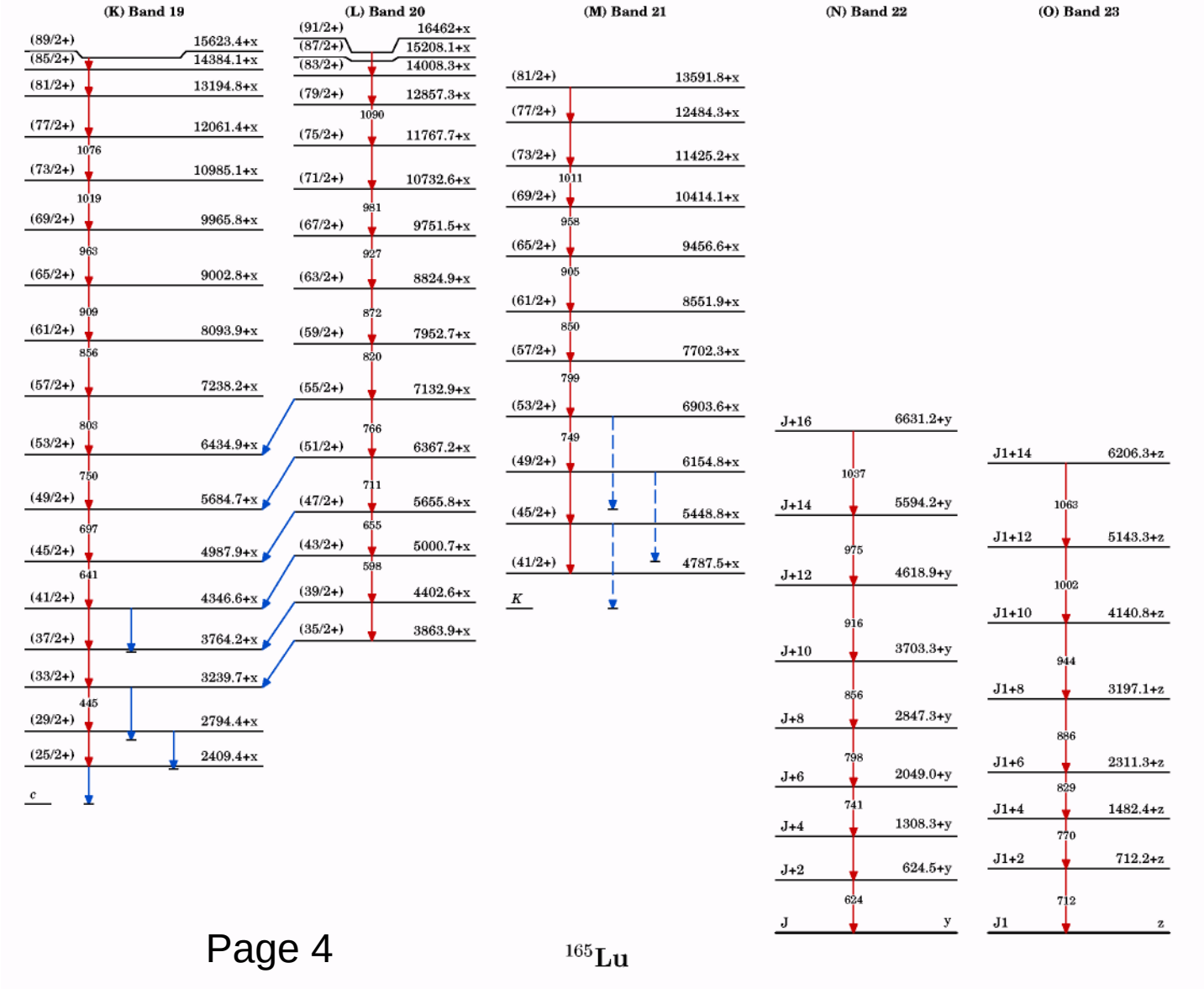

(A) Band 13
(a) Band 14
(I) Band 15
(i) Band 16
(J) Band 17
(j) Band 18
(81/2-) 13102.7+x
1166
(77/2-) 11936.2+x
(73/2-) 10827.3+x
1046
(69/2-) 9781.3+x
986
(65/2-) 8795.3+x
931
(61/2-) 7864.3+x
882
(57/2-) 6982.4+x
835
(53/2-) 6147.1+x
783
(49/2-) 5363.9+x
719
(45/2-) 4645.2+x
635
(41/2-) 4010.3+x
(37/2-) 3475.30+x
436
(33/2-) 3038.95+x
504
(29/2-) 2535.23+x
(25/2-) 1945.33+x
(21/2-) 1386.75+x
(17/2-) 893.46+x
(13/2-) 494.72+x
(9/2-) 234.95+x
(91/2-) 15745.5+x
(87/2-) 14558.5+x
(83/2-) 13399.7+x
(79/2-) 12278.0+x
1076
(75/2-) 11202.0+x
1027
(71/2-) 10175.4+x
976
(67/2-) 9199.0+x
929
(63/2-) 8269.6+x
886
(59/2-) 7383.6+x
844
(55/2-) 6539.2+x
799
(51/2-) 5740.6+x
744
(47/2-) 4996.5+x
674
(43/2-) 4322.3+x
587
(39/2-) 3735.3+x
(35/2-) 3248.59+x
(31/2-) 2789.38+x
(27/2-) 2196.30+x
(23/2-) 1618.75+x
(19/2-) 1099.95+x
(15/2-) 662.61+x
(11/2-) 335.45+x
(77/2-) 12190.1+x
1013
(73/2-) 11142.3+x
974
(69/2-) 10129.5+x
929
(65/2-) 9156.0+x
872
(61/2-) 8227.1+x
802
(57/2-) 7354.9+x
727
(53/2-) 6552.5+x
651
(49/2-) 5825.4+x
599
(45/2-) 5174.2+x
(41/2-) 4575.3+x
(75/2-) 11684.1+x
1039
(71/2-) 10645.1+x
1002
(67/2-) 9643.2+x
(63/2-) 8692.0+x
903
(59/2-) 7788.7+x
841
(55/2-) 6947.3+x
769
(51/2-) 6178.7+x
703
(47/2-) 5475.8+x
702
(43/2-) 4773.5+x
656
(39/2-) 4117.1+x
(35/2-) 3485.1+x
538
(31/2-) 2947.5+x
751
a
(81/2-) 13245.2+x
(77/2-) 12105.5+x
(73/2-) 11017.5+x
(69/2-) 9991.2+x
963
(65/2-) 9028.0+x
900
(61/2-) 8128.0+x
840
(57/2-) 7288.1+x
780
(53/2-) 6507.6+x
721
(49/2-) 5786.5+x
671
(45/2-) 5115.7+x
625
(41/2-) 4453.6+x
630
(37/2-) 3824.1+x
602
(33/2-) 3222.5+x
658
D
(87/2-) 14849.1+x
(83/2-) 13686.6+x
(79/2-) 12558.9+x
1082
(75/2-) 11477.3+x
(71/2-) 10449.1+x
974
(67/2-) 9475.3+x
918
(63/2-) 8557.0+x
863
(59/2-) 7693.9+x
807
(55/2-) 6886.7+x
749
(51/2-) 6138.1+x
691
(47/2-) 5446.7+x
646
(43/2-) 4800.4+x
615
(39/2-) 4185.0+x
583
(35/2-) 3602.3+x
535
(31/2-) 3067.2+x
482
(27/2-) 2585.7+x
(23/2-) 2155.7+x
(19/2-) 1769.6+x
b

^{165}Lu


(K) Band 19
(89/2+) 15623.4+x
(85/2+) 14384.1+x
(81/2+) 13194.8+x
(77/2+) 12061.4+x
(73/2+) 10985.1+x
(69/2+) 9965.8+x
(65/2+) 9002.8+x
(61/2+) 8093.9+x
(57/2+) 7238.2+x
(53/2+) 6434.9+x
(49/2+) 5684.7+x
(45/2+) 4987.9+x
(41/2+) 4346.6+x
(37/2+) 3764.2+x
(33/2+) 3239.7+x
(29/2+) 2794.4+x
(25/2+) 2409.4+x
1076
1019
963
909
856
803
750
697
641
445
c
(L) Band 20
(91/2+) 16462+x
(87/2+) 15208.1+x
(83/2+) 14008.3+x
(79/2+) 12857.3+x
(75/2+) 11767.7+x
(71/2+) 10732.6+x
(67/2+) 9751.5+x
(63/2+) 8824.9+x
(59/2+) 7952.7+x
(55/2+) 7132.9+x
(51/2+) 6367.2+x
(47/2+) 5655.8+x
(43/2+) 5000.7+x
(39/2+) 4402.6+x
(35/2+) 3863.9+x
1090
981
927
872
820
766
711
655
598
(M) Band 21
(81/2+) 13591.8+x
(77/2+) 12484.3+x
(73/2+) 11425.2+x
(69/2+) 10414.1+x
(65/2+) 9456.6+x
(61/2+) 8551.9+x
(57/2+) 7702.3+x
(53/2+) 6903.6+x
(49/2+) 6154.8+x
(45/2+) 5448.8+x
(41/2+) 4787.5+x
K
1011
958
905
850
799
749
(N) Band 22
J+16 6631.2+y
J+14 5594.2+y
J+12 4618.9+y
J+10 3703.3+y
J+8 2847.3+y
J+6 2049.0+y
J+4 1308.3+y
J+2 624.5+y
J y
1037
975
916
856
798
741
624
(O) Band 23
J1+14 6206.3+z
J1+12 5143.3+z
J1+10 4140.8+z
J1+8 3197.1+z
J1+6 2311.3+z
J1+4 1482.4+z
J1+2 712.2+z
J1 z
1063
1002
944
886
829
770
712

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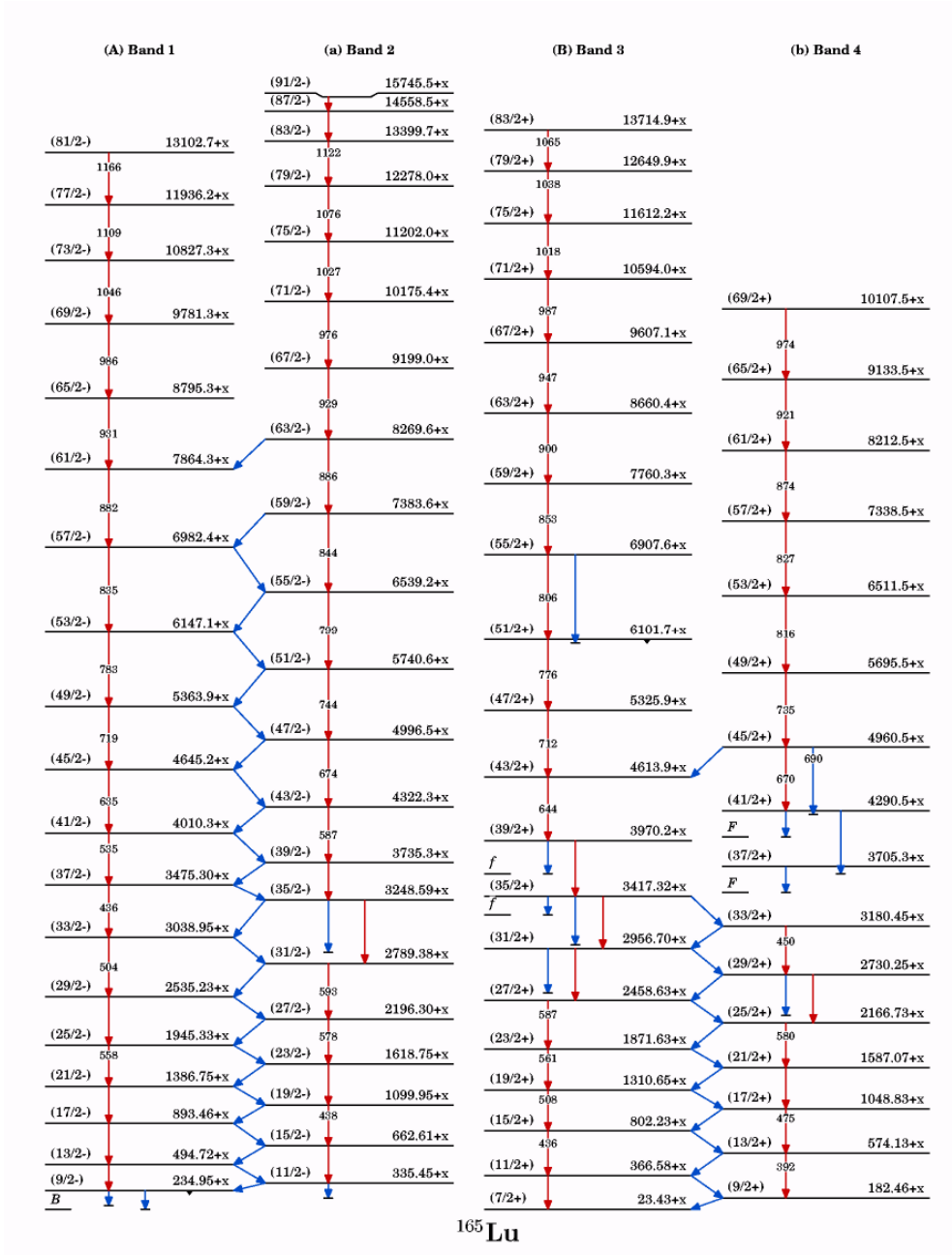
(A) Band 1
(a) Band 2
(B) Band 3
(b) Band 4
(91/2-) 15745.5+x
(87/2-) 14558.5+x
(83/2-) 13399.7+x
(79/2-) 12278.0+x
(75/2-) 11202.0+x
(71/2-) 10175.4+x
(67/2-) 9199.0+x
(63/2-) 8269.6+x
(59/2-) 7383.6+x
(55/2-) 6539.2+x
(51/2-) 5740.6+x
(47/2-) 4996.5+x
(43/2-) 4322.3+x
(39/2-) 3735.3+x
(35/2-) 3248.59+x
(31/2-) 2789.38+x
(27/2-) 2196.30+x
(23/2-) 1618.75+x
(19/2-) 1099.95+x
(15/2-) 662.61+x
(11/2-) 335.45+x
(81/2-) 13102.7+x
(77/2-) 11936.2+x
(73/2-) 10827.3+x
(69/2-) 9781.3+x
(65/2-) 8795.3+x
(61/2-) 7864.3+x
(57/2-) 6982.4+x
(53/2-) 6147.1+x
(49/2-) 5363.9+x
(45/2-) 4645.2+x
(41/2-) 4010.3+x
(37/2-) 3475.30+x
(33/2-) 3038.95+x
(29/2-) 2535.23+x
(25/2-) 1945.33+x
(21/2-) 1386.75+x
(17/2-) 893.46+x
(13/2-) 494.72+x
(9/2-) 234.95+x
B
(83/2+) 13714.9+x
(79/2+) 12649.9+x
(75/2+) 11612.2+x
(71/2+) 10594.0+x
(67/2+) 9607.1+x
(63/2+) 8660.4+x
(59/2+) 7760.3+x
(55/2+) 6907.6+x
(51/2+) 6101.7+x
(47/2+) 5325.9+x
(43/2+) 4613.9+x
(39/2+) 3970.2+x
f
(35/2+) 3417.32+x
f
(31/2+) 2956.70+x
(27/2+) 2458.63+x
(23/2+) 1871.63+x
(19/2+) 1310.65+x
(15/2+) 802.23+x
(11/2+) 366.58+x
(7/2+) 23.43+x
(69/2+) 10107.5+x
(65/2+) 9133.5+x
(61/2+) 8212.5+x
(57/2+) 7338.5+x
(53/2+) 6511.5+x
(49/2+) 5695.5+x
(45/2+) 4960.5+x
(41/2+) 4290.5+x
F
(37/2+) 3705.3+x
F
(33/2+) 3180.45+x
(29/2+) 2730.25+x
(25/2+) 2166.73+x
(21/2+) 1587.07+x
(17/2+) 1048.83+x
(13/2+) 574.13+x
(9/2+) 182.46+x
1166
1109
1046
986
931
882
835
783
719
685
535
436
504
558
1122
1076
1027
976
929
886
844
799
744
674
587
593
578
558
438
1065
1038
1018
987
947
900
853
806
776
712
644
690
670
974
921
874
827
816
735
450
580
561
508
436
475
392

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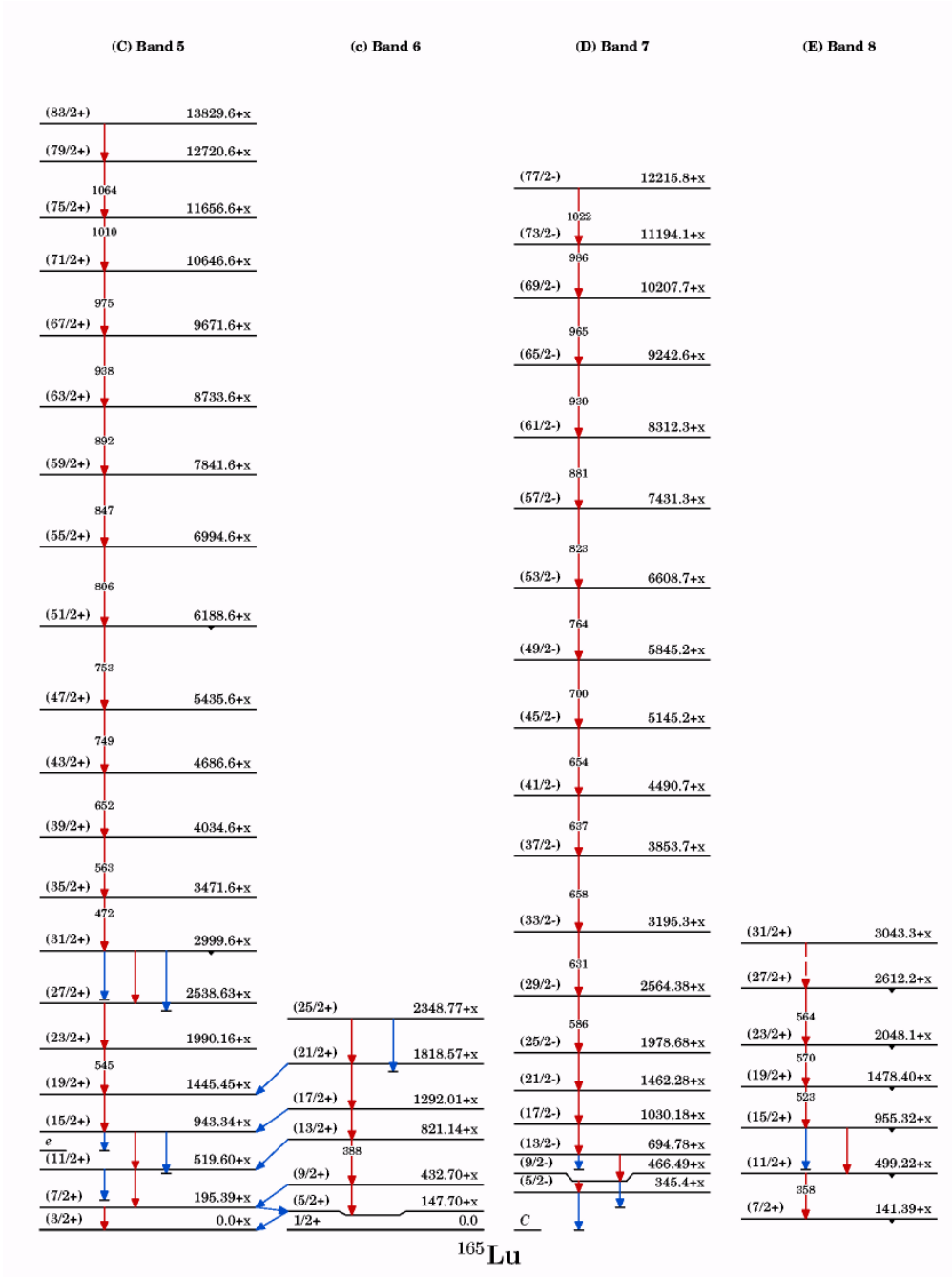
(C) Band 5
(c) Band 6
(D) Band 7
(E) Band 8
(83/2+) 13829.6+x
(79/2+) 12720.6+x
1064
(75/2+) 11656.6+x
1010
(71/2+) 10646.6+x
975
(67/2+) 9671.6+x
938
(63/2+) 8733.6+x
892
(59/2+) 7841.6+x
847
(55/2+) 6994.6+x
806
(51/2+) 6188.6+x
753
(47/2+) 5435.6+x
749
(43/2+) 4686.6+x
652
(39/2+) 4034.6+x
563
(35/2+) 3471.6+x
472
(31/2+) 2999.6+x
(27/2+) 2538.63+x
(23/2+) 1990.16+x
545
(19/2+) 1445.45+x
(15/2+) 943.34+x
e
(11/2+) 519.60+x
(7/2+) 195.39+x
(3/2+) 0.0+x
(25/2+) 2348.77+x
(21/2+) 1818.57+x
(17/2+) 1292.01+x
(13/2+) 821.14+x
388
(9/2+) 432.70+x
(5/2+) 147.70+x
1/2+ 0.0
(77/2-) 12215.8+x
1022
(73/2-) 11194.1+x
986
(69/2-) 10207.7+x
965
(65/2-) 9242.6+x
930
(61/2-) 8312.3+x
881
(57/2-) 7431.3+x
823
(53/2-) 6608.7+x
764
(49/2-) 5845.2+x
700
(45/2-) 5145.2+x
654
(41/2-) 4490.7+x
637
(37/2-) 3853.7+x
658
(33/2-) 3195.3+x
631
(29/2-) 2564.38+x
586
(25/2-) 1978.68+x
(21/2-) 1462.28+x
(17/2-) 1030.18+x
(13/2-) 694.78+x
(9/2-) 466.49+x
(5/2-) 345.4+x
C
(31/2+) 3043.3+x
(27/2+) 2612.2+x
564
(23/2+) 2048.1+x
570
(19/2+) 1478.40+x
523
(15/2+) 955.32+x
(11/2+) 499.22+x
358
(7/2+) 141.39+x
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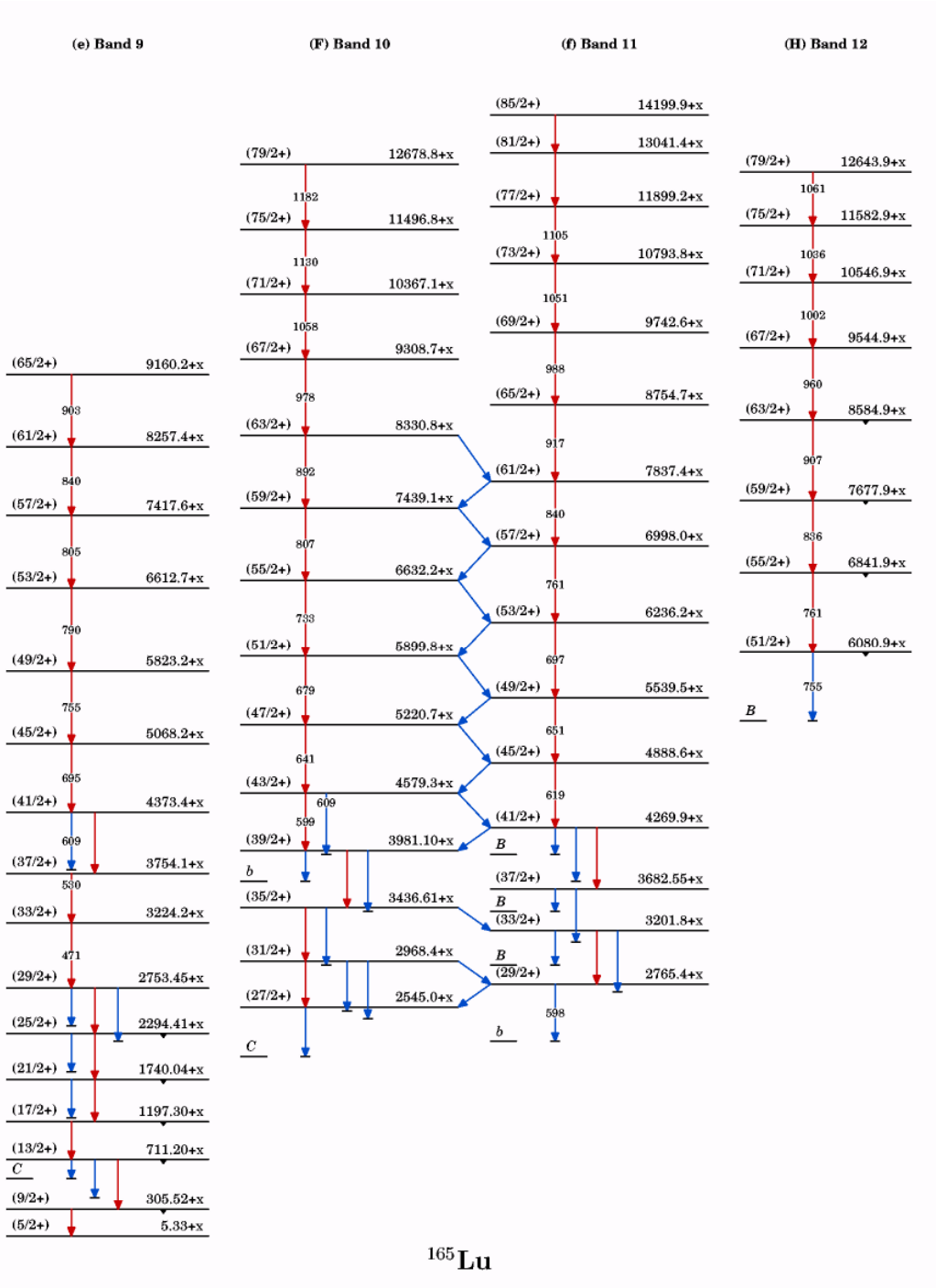
(e) Band 9
(F) Band 10
(f) Band 11
(H) Band 12
(65/2+) 9160.2+x
903
(61/2+) 8257.4+x
840
(57/2+) 7417.6+x
805
(53/2+) 6612.7+x
790
(49/2+) 5823.2+x
755
(45/2+) 5068.2+x
695
(41/2+) 4373.4+x
609
(37/2+) 3754.1+x
530
(33/2+) 3224.2+x
471
(29/2+) 2753.45+x
(25/2+) 2294.41+x
(21/2+) 1740.04+x
(17/2+) 1197.30+x
(13/2+) 711.20+x
C
(9/2+) 305.52+x
(5/2+) 5.33+x
(79/2+) 12678.8+x
1182
(75/2+) 11496.8+x
1130
(71/2+) 10367.1+x
1058
(67/2+) 9308.7+x
978
(63/2+) 8330.8+x
892
(59/2+) 7439.1+x
807
(55/2+) 6632.2+x
733
(51/2+) 5899.8+x
679
(47/2+) 5220.7+x
641
(43/2+) 4579.3+x
609
599
(39/2+) 3981.10+x
b
(35/2+) 3436.61+x
(31/2+) 2968.4+x
(27/2+) 2545.0+x
C
(85/2+) 14199.9+x
(81/2+) 13041.4+x
(77/2+) 11899.2+x
1105
(73/2+) 10793.8+x
1051
(69/2+) 9742.6+x
988
(65/2+) 8754.7+x
917
(61/2+) 7837.4+x
840
(57/2+) 6998.0+x
761
(53/2+) 6236.2+x
697
(49/2+) 5539.5+x
651
(45/2+) 4888.6+x
619
(41/2+) 4269.9+x
B
(37/2+) 3682.55+x
B
(33/2+) 3201.8+x
B
(29/2+) 2765.4+x
598
b
(79/2+) 12643.9+x
1061
(75/2+) 11582.9+x
1036
(71/2+) 10546.9+x
1002
(67/2+) 9544.9+x
960
(63/2+) 8584.9+x
907
(59/2+) 7677.9+x
836
(55/2+) 6841.9+x
761
(51/2+) 6080.9+x
755
B

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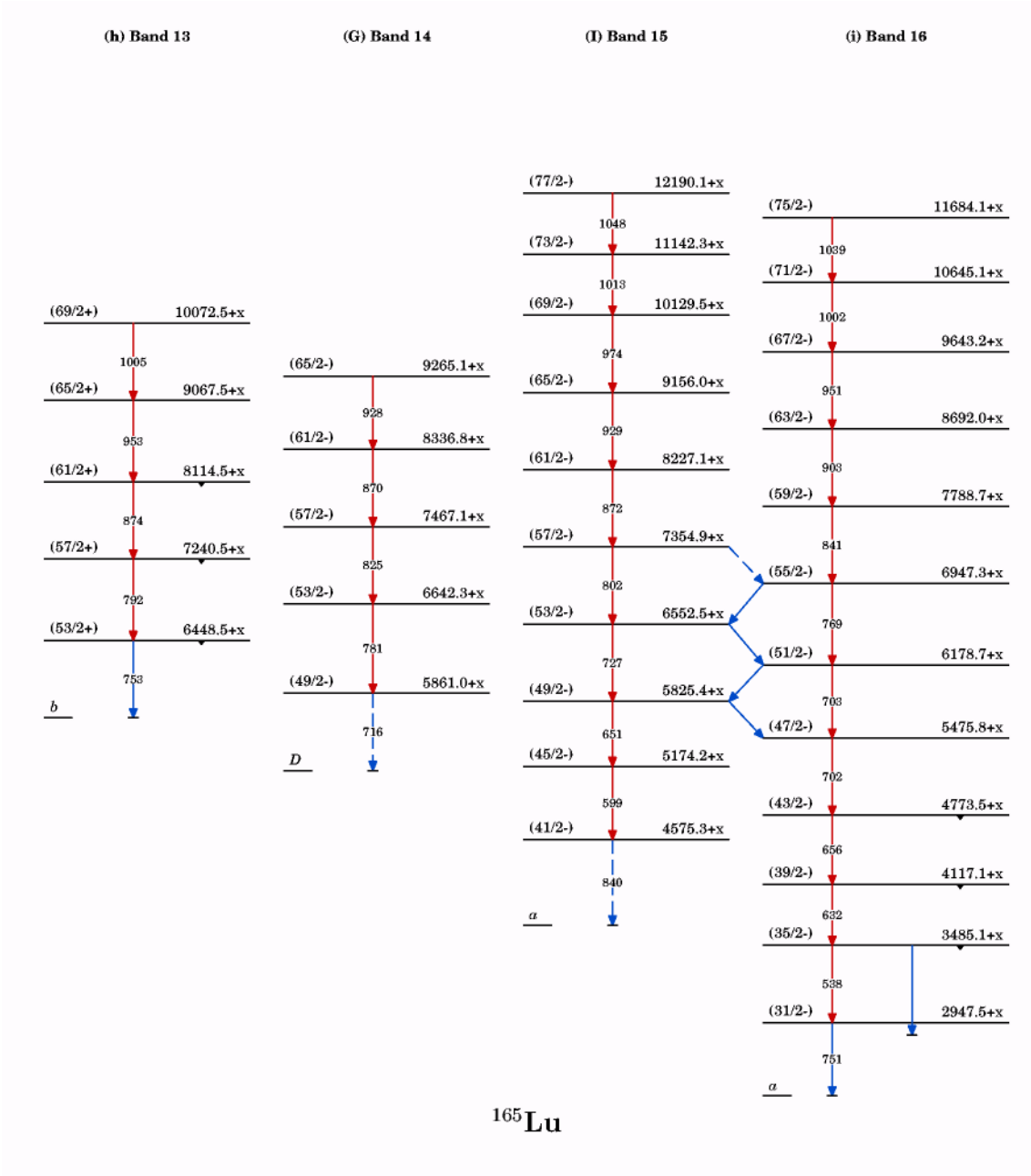
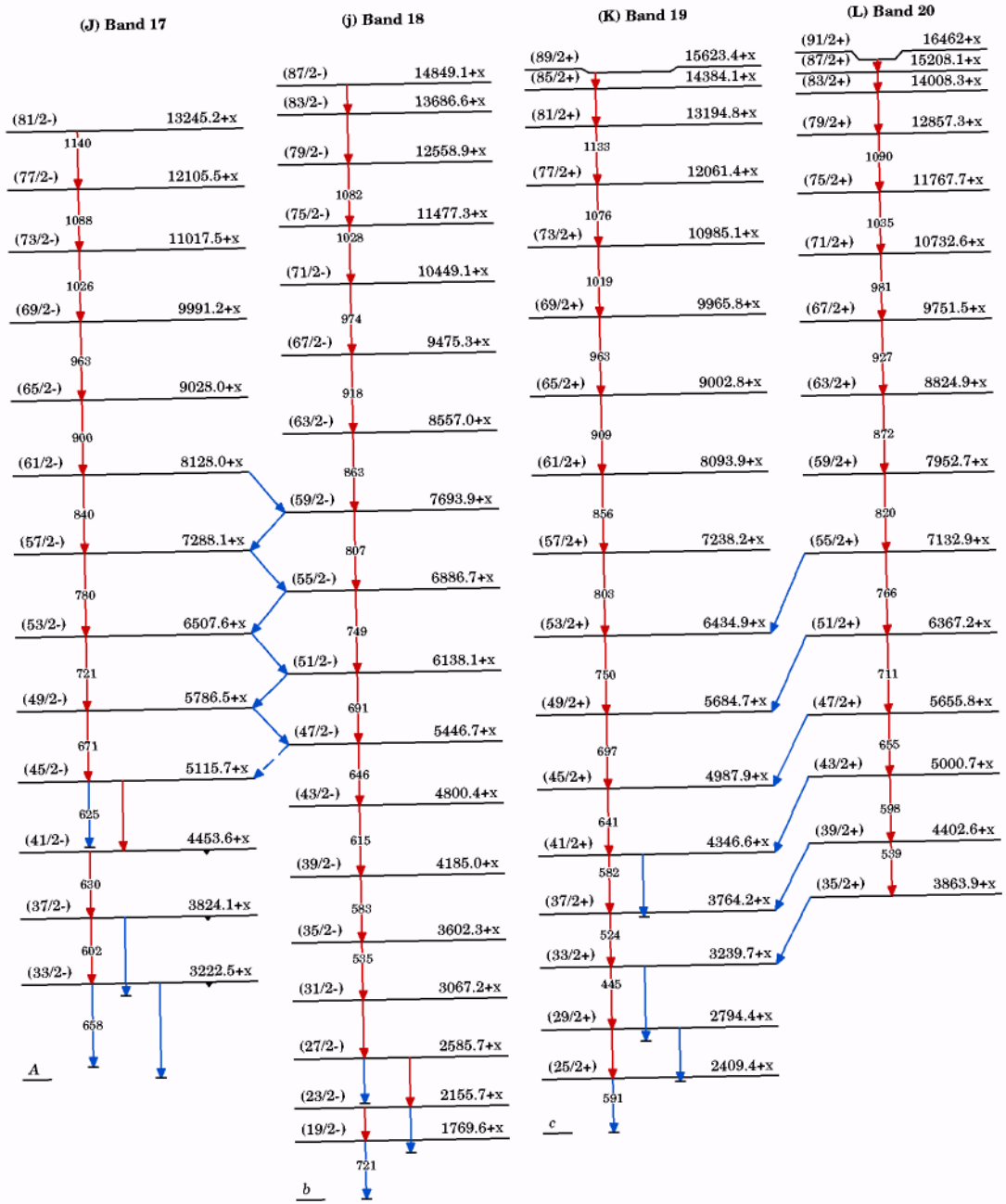

(h) Band 13
(69/2+) 10072.5+x
1005
(65/2+) 9067.5+x
953
(61/2+) 8114.5+x
874
(57/2+) 7240.5+x
792
(53/2+) 6448.5+x
753
b
(G) Band 14
(65/2-) 9265.1+x
928
(61/2-) 8336.8+x
870
(57/2-) 7467.1+x
825
(53/2-) 6642.3+x
781
(49/2-) 5861.0+x
716
D
(I) Band 15
(77/2-) 12190.1+x
1048
(73/2-) 11142.3+x
1013
(69/2-) 10129.5+x
974
(65/2-) 9156.0+x
929
(61/2-) 8227.1+x
872
(57/2-) 7354.9+x
802
(53/2-) 6552.5+x
727
(49/2-) 5825.4+x
651
(45/2-) 5174.2+x
599
(41/2-) 4575.3+x
840
a
(i) Band 16
(75/2-) 11684.1+x
1039
(71/2-) 10645.1+x
1002
(67/2-) 9643.2+x
951
(63/2-) 8692.0+x
903
(59/2-) 7788.7+x
841
(55/2-) 6947.3+x
769
(51/2-) 6178.7+x
703
(47/2-) 5475.8+x
702
(43/2-) 4773.5+x
656
(39/2-) 4117.1+x
632
(35/2-) 3485.1+x
538
(31/2-) 2947.5+x
751
a

^{165}Lu


(J) Band 17
(81/2-) 13245.2+x
1140
(77/2-) 12105.5+x
1088
(73/2-) 11017.5+x
1026
(69/2-) 9991.2+x
963
(65/2-) 9028.0+x
900
(61/2-) 8128.0+x
840
(57/2-) 7288.1+x
780
(53/2-) 6507.6+x
721
(49/2-) 5786.5+x
671
(45/2-) 5115.7+x
625
(41/2-) 4453.6+x
630
(37/2-) 3824.1+x
602
(33/2-) 3222.5+x
658
A
(j) Band 18
(87/2-) 14849.1+x
(83/2-) 13686.6+x
(79/2-) 12558.9+x
1082
(75/2-) 11477.3+x
1028
(71/2-) 10449.1+x
974
(67/2-) 9475.3+x
918
(63/2-) 8557.0+x
863
(59/2-) 7693.9+x
807
(55/2-) 6886.7+x
749
(51/2-) 6138.1+x
691
(47/2-) 5446.7+x
646
(43/2-) 4800.4+x
615
(39/2-) 4185.0+x
583
(35/2-) 3602.3+x
535
(31/2-) 3067.2+x
(27/2-) 2585.7+x
(23/2-) 2155.7+x
(19/2-) 1769.6+x
721
b
(K) Band 19
(89/2+) 15623.4+x
(85/2+) 14384.1+x
(81/2+) 13194.8+x
1133
(77/2+) 12061.4+x
1076
(73/2+) 10985.1+x
1019
(69/2+) 9965.8+x
963
(65/2+) 9002.8+x
909
(61/2+) 8093.9+x
856
(57/2+) 7238.2+x
803
(53/2+) 6434.9+x
750
(49/2+) 5684.7+x
697
(45/2+) 4987.9+x
641
(41/2+) 4346.6+x
582
(37/2+) 3764.2+x
524
(33/2+) 3239.7+x
445
(29/2+) 2794.4+x
(25/2+) 2409.4+x
591
c
(L) Band 20
(91/2+) 16462+x
(87/2+) 15208.1+x
(83/2+) 14008.3+x
(79/2+) 12857.3+x
1090
(75/2+) 11767.7+x
1035
(71/2+) 10732.6+x
981
(67/2+) 9751.5+x
927
(63/2+) 8824.9+x
872
(59/2+) 7952.7+x
820
(55/2+) 7132.9+x
766
(51/2+) 6367.2+x
711
(47/2+) 5655.8+x
655
(43/2+) 5000.7+x
598
(39/2+) 4402.6+x
539
(35/2+) 3863.9+x

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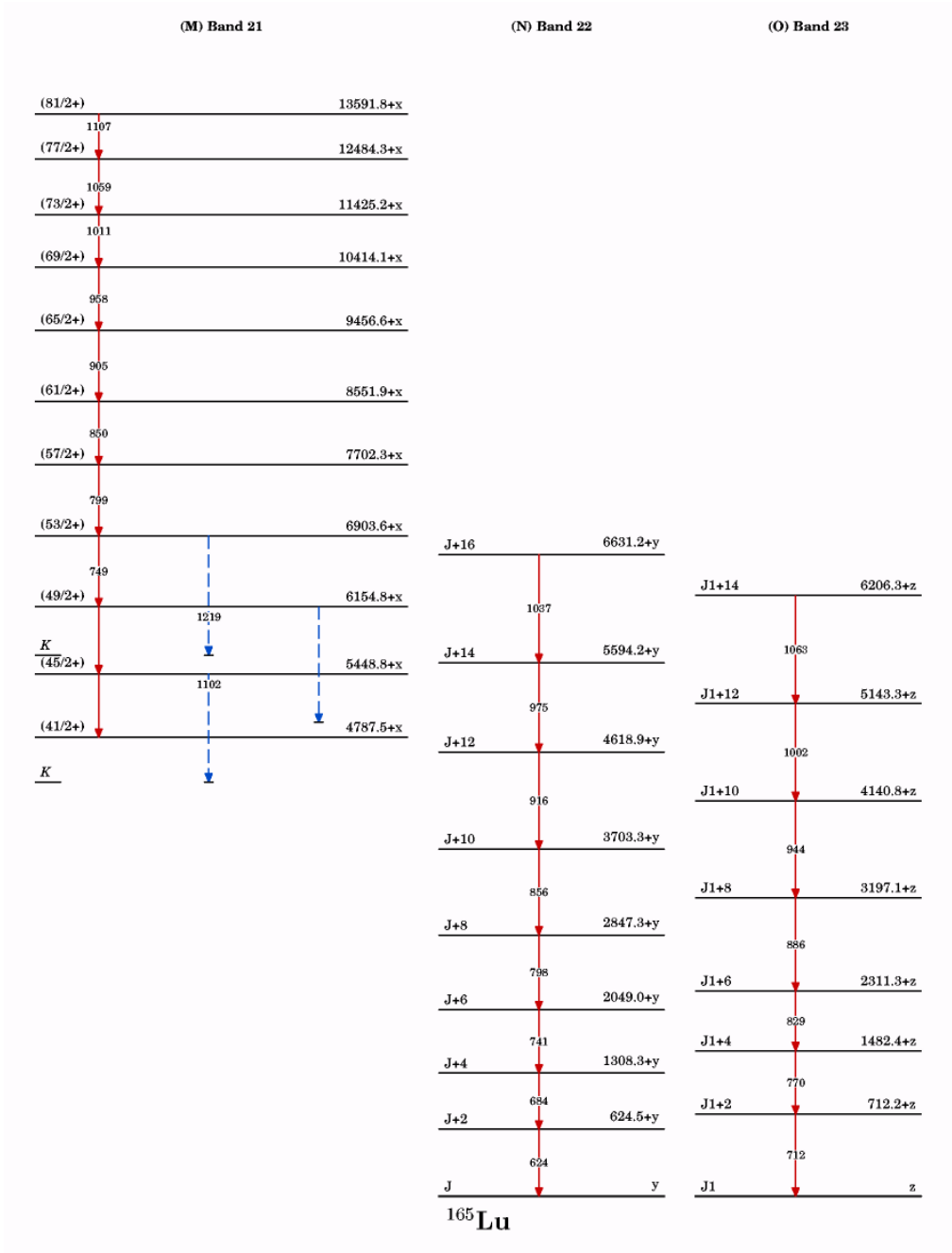
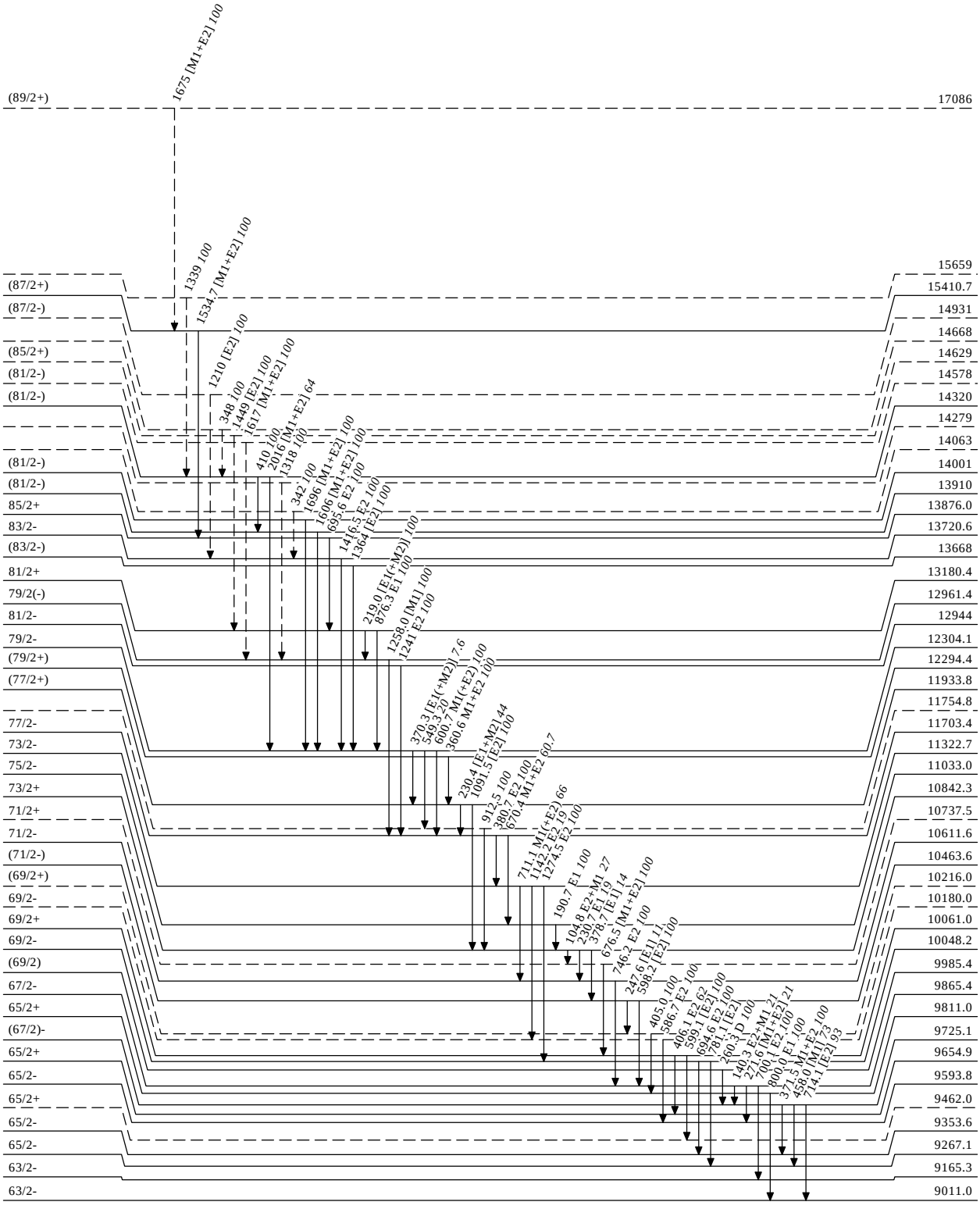
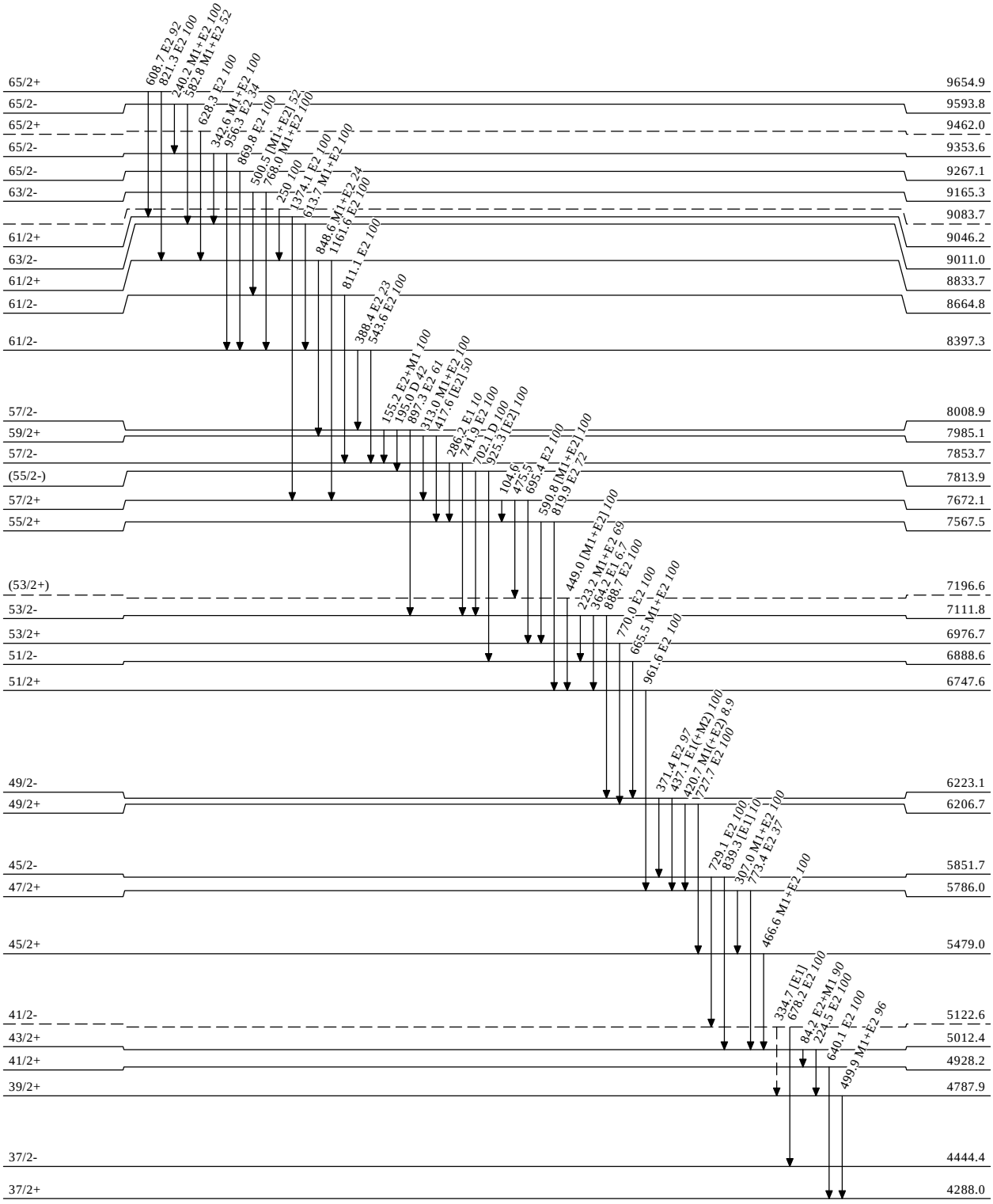

(M) Band 21
(81/2+)
13591.8+x
1107
(77/2+)
12484.3+x
1059
(73/2+)
11425.2+x
1011
(69/2+)
10414.1+x
958
(65/2+)
9456.6+x
905
(61/2+)
8551.9+x
850
(57/2+)
7702.3+x
799
(53/2+)
6903.6+x
749
(49/2+)
6154.8+x
1219
K
(45/2+)
5448.8+x
1102
(41/2+)
4787.5+x
K
(N) Band 22
J+16
6631.2+y
1037
J+14
5594.2+y
975
J+12
4618.9+y
916
J+10
3703.3+y
856
J+8
2847.3+y
798
J+6
2049.0+y
741
J+4
1308.3+y
684
J+2
624.5+y
624
J
y
(O) Band 23
J1+14
6206.3+z
1063
J1+12
5143.3+z
1002
J1+10
4140.8+z
944
J1+8
3197.1+z
886
J1+6
2311.3+z
829
J1+4
1482.4+z
770
J1+2
712.2+z
712
J1
z
165Lu

E(level)	Eγ	Iγ	Mult.
0.0			
88.07 *8*	88.1 *1*	100	M1(+E2)
151.63 *8*	63.5 *1*	68 *23*	M1(+E2)
	151.6 *1*	100 *31*	E2
226.74 *15*	226.8 *2*	100	M1+E2
323.14 *20*	171.5 *2*	25 *9*	E2(+M1)
	323.2 *5*	100 *11*	M1+E2
398.63 *22*	247.0 *2*	100 *5*	E2(+M1)
467.00 *16*	315.2 *2*	100 *50*	E2(+M1)
	379.1 *2*	100 *AP*	M1(+E2)
531.72 *16*	305.0 *2*	7.5 *20*	
	531.7 *2*	100 *25*	
563.22 *19*	31.5 *1*	100	E1
584.47 *18*	432.7 *2*	100 *20*	
	496.7 *3*	80 *50*	
595.1 *4*	507.0 *4*	100	
606.75 *16*	380.1 *3*	12 *3*	
	518.7 *4*	29 *6*	
	606.7 *2*	100 *20*	
760.0 *6*	533.3 *5*	100	
959.6 *4*	732.9 *3*	100	
1038.5	475.4	100	E2
1057.0	830.0	17 *5*	
	1057.2	100 *23*	
1430.9	1204.2	100	
1563.0	524.5	100	
1572.7	534.2	100	E2
2169.1	596.4	100	E2
2229.6	656.9	100	M1+E2
	666.6	36	
2574.0	344.4	100	E2
	404.9	65	M1+E2
2838.1	264.1	0.6	[M1]
	669.0	100	E2
3354.0	515.9		[M1+E2]
	780.0	100	E2
3557.0	718.9	100	E2
3623.2 *8*			
4093.0	469.8	41	
	739.0	100	[E1]
4219.2	662.2	14	[M1+E2]
	865.2	100	E2
4288.0	731.0	100	E2
4444.4	225.2	100	[E1]
	351.4	70	E2
4787.9	499.9	96	M1+E2
	568.7	100	E2
4928.2	640.1	100	E2
5012.4 *8*	84.2	90	E2+M1
	224.5	100	E2
5122.6	334.7		[E1]
	678.2	100	E2
5479.0	466.6	100	M1+E2
5786.0	307.0	100	M1+E2
	773.4	37	E2
5851.7	729.1	100	E2
	839.3	10	[E1]
6206.7	420.7	8.9	M1(+E2)
	727.7	100	E2
6223.1	371.4	97	E2
	437.1	100	E1(+M2)
6747.6	961.6	100	E2
6888.6	665.5	100	M1+E2
6976.7	770.0	100	E2
7111.8	223.2	69	M1+E2
	364.2	6.7	E1
	888.7	100	E2
7196.6	449.0	100	[M1+E2]
7567.5	590.8	100	[M1+E2]
	819.9	72	E2
7672.1	104.6		
	475.5		
	695.4	100	E2
7813.9	702.1	100	D
	925.3	100	[E2]
7853.7	286.2	10	E1
	741.9	100	E2
7985.1	313.0	100	M1+E2
	417.6	50	[E2]
8008.9	155.2	100	E2+M1
	195.0	42	D
	897.3	61	E2
8397.3	388.4	23	E2
	543.6	100	E2
8664.8	811.1	100	E2
8833.7	848.6	24	M1+E2
	1161.6	100	E2
9011.0	613.7	100	M1+E2
9046.2	1374.1	100	E2
9083.7	250	100	
9165.3	500.5	52	[M1+E2]
	768.0	100	M1+E2

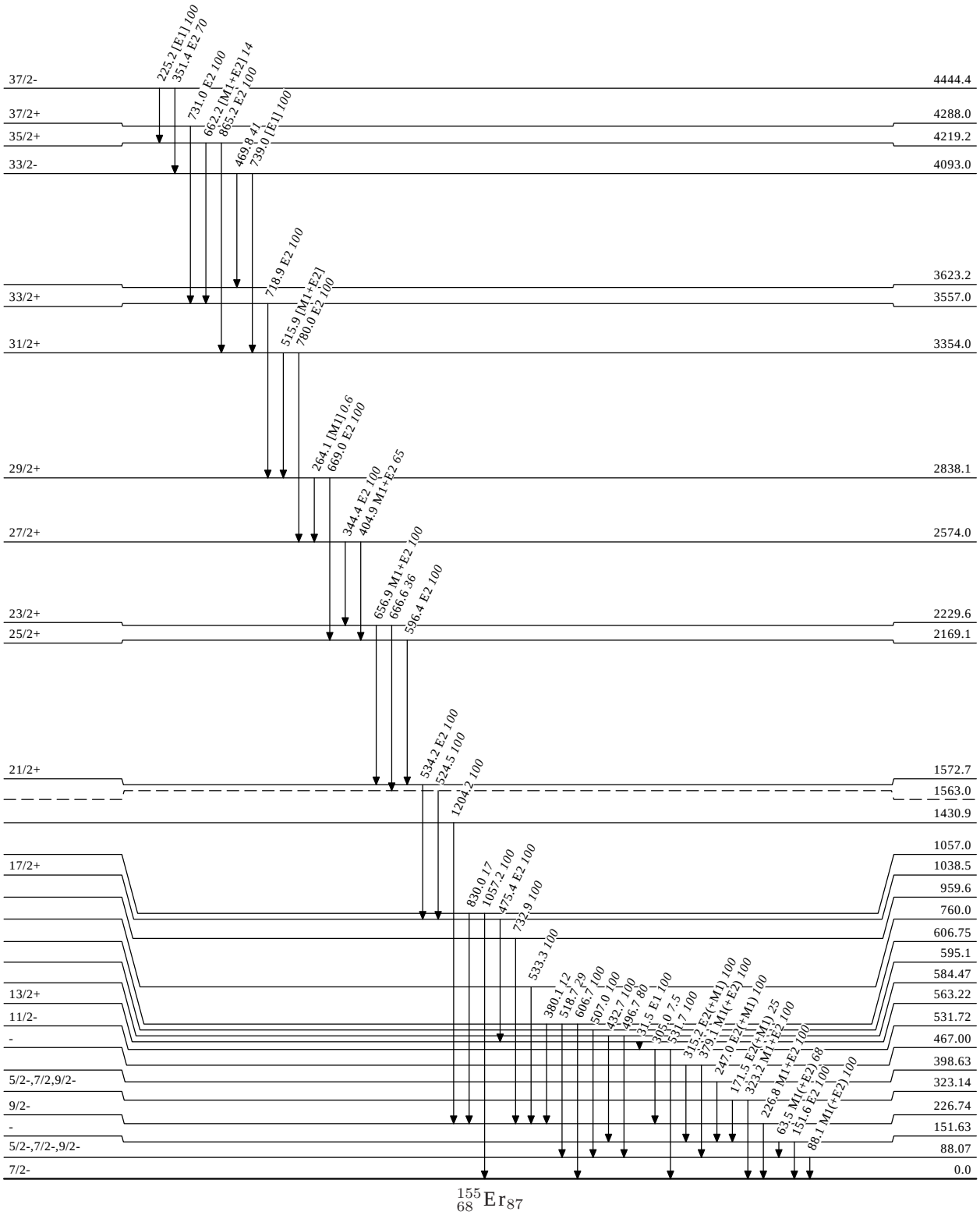
E(level)	Eγ	Iγ	Mult.
9267.1	869.8	100	E2
9353.6	342.6	100	M1+E2
	956.3	34	E2
9462.0	628.3	100	E2
9593.8	240.2	100	M1+E2
	582.8	52	M1+E2
9654.9	608.7	92	E2
	821.3	100	E2
9725.1	371.5	100	M1+E2
	458.0	73	[M1]
	714.1	93	[E2]
9811.0	800.0	100	E1
9865.4	140.3	21	E2+M1
	271.6	21	[M1+E2]
	700.1	100	E2
	781.7		
	854.4	55	E2
9985.4	260.3	100	D
10048.2	694.6	100	E2
	781.1		[E2]
10061.0	406.1	62	E2
	599.1	100	[E2]
10180.0	586.7	100	E2
10216.0	405.0	100	
10463.6	247.6	11	[E1]
	598.2	100	[E2]
10611.6	746.2	100	E2
10737.5	676.5	100	[M1+E2]
10842.3	104.8	27	E2+M1
	230.7	19	E1
	378.7	14	[E1]
	781.3	100	E2
11033.0	190.7	100	E1
11322.7	711.1	66	M1(+E2)
	1142.2	19	E2
	1274.5	100	E2
11703.4	380.7	100	E2
	670.4	60.7	M1+E2
11754.8	912.5	100	
11933.8	230.4	44	[E1+M2]
	1091.5	100	[E2]
12294.4	360.6	100	M1+E2
12304.1	370.3	7.6	[E1(+M2)]
	549.3	20	
	600.7	100	M1(+E2)
12944	1241	100	E2
12961.4	1258.0	100	[M1]
13180.4	219.0	100	[E1(+M2)]
	876.3	100	E1
13668	1364	100	[E2]
13720.6	1416.5	100	E2
13876.0	695.6	100	E2
13910	1606	100	[M1+E2]
14001	1696	100	[M1+E2]
14063	342	100	
14279	1318	100	
14320	410	100	
	2016	64	[M1+E2]
14578	1617	100	[M1+E2]
14629	1449	100	[E2]
14668	348	100	
14931	1210	100	[E2]
15410.7	1534.7	100	[M1+E2]
15659	1339	100	
17086	1675	100	[M1+E2]


(89/2+)
17086
1675 [M1+E2] 100
(87/2+)
15659
15410.7
1339 100
(87/2-)
14931
1534.7 [M1+E2] 100
(85/2+)
14668
1210 [E2] 100
(81/2-)
14629
348 100
1449 [E2] 100
(81/2-)
14578
1617 [M1+E2] 64
14320
14279
14063
410 100
2016 [M1+E2] 100
1318 100
(81/2-)
14001
342 100
1696 [M1+E2] 100
(81/2-)
13910
1606 [M1+E2] 100
695.6 E2 100
85/2+
13876.0
1416.5 E2 100
83/2-
13720.6
1364 [E2] 100
(83/2-)
13668
219.0 [E1(+M2)] 100
81/2+
13180.4
876.3 E1 100
79/2(-)
12961.4
1258.0 [M1] 100
81/2-
12944
1241 E2 100
79/2-
12304.1
370.3 [E1(+M2)] 7.6
(79/2+)
12294.4
549.3 20
600.7 M1(+E2) 100
(77/2+)
11933.8
360.6 M1+E2 100
11754.8
77/2-
11703.4
230.4 [E1+M2] 44
73/2-
11322.7
1091.5 [E2] 100
75/2-
11033.0
912.5 100
73/2+
10842.3
380.7 E2 100
71/2+
10737.5
670.4 M1+E2 60.7
71/2-
10611.6
7111 M1(+E2) 66
(71/2-)
10463.6
1142.2 E2 19
(69/2+)
10216.0
1274.5 E2 100
69/2-
10180.0
190.7 E1 100
69/2+
10061.0
104.8 E2+M1 27
69/2-
10048.2
230.7 E1 19
(69/2)
9985.4
378.7 [E1] 14
676.5 [M1+E2] 100
67/2-
9865.4
746.2 E2 100
65/2+
9811.0
247.6 [E1] 11
(67/2)-
9725.1
598.2 [E2] 100
65/2+
9654.9
405.0 100
65/2-
9593.8
586.7 E2 100
406.1 E2 62
65/2+
9462.0
599.1 [E2] 100
694.6 E2 100
65/2-
9353.6
781.1 [E2]
260.3 D 100
65/2-
9267.1
140.3 E2+M1 21
271.6 [M1+E2] 21
63/2-
9165.3
700.1 E2 100
800.0 E1 100
63/2-
9011.0
371.5 M1+E2 73
458.0 [M1] 23
714.1 [E2] 93

$^{155}_{68}Er_{87}$


608.7 E2 92
821.3 E2 100
240.2 M1+E2 100
582.8 M1+E2 52
628.3 E2 100
342.6 M1+E2 100
956.3 E2 34
869.8 E2 100
500.5 [M1+E2] 52
768.0 M1+E2 100
250 100
1374.1 E2 100
613.7 M1+E2 100
848.6 M1+E2 24
1161.6 E2 100
811.1 E2 100
388.4 E2 23
543.6 E2 100
155.2 E2+M1 100
195.0 D 42
897.3 E2 61
313.0 M1+E2 100
417.6 [E2] 50
286.2 E1 10
741.9 E2 100
702.1 D 100
925.3 [E2] 100
104.6
475.5
695.4 E2 100
590.8 [M1+E2] 100
819.9 E2 72
449.0 [M1+E2] 100
223.2 M1+E2 69
364.2 E1 6.7
888.7 E2 100
770.0 E2 100
665.5 M1+E2 100
961.6 E2 100
371.4 E2 97
437.1 E1(+M2) 100
420.7 M1(+E2) 8.9
727.7 E2 100
729.1 E2 100
839.3 [E1] 10
307.0 M1+E2 100
773.4 E2 37
466.6 M1+E2 100
334.7 [E1]
678.2 E2 100
84.2 E2+M1 90
224.5 E2 100
640.1 E2 100
499.9 M1+E2 96
65/2+ 9654.9
65/2- 9593.8
65/2+ 9462.0
65/2- 9353.6
65/2- 9267.1
63/2- 9165.3
9083.7
61/2+ 9046.2
63/2- 9011.0
61/2+ 8833.7
61/2- 8664.8
61/2- 8397.3
57/2- 8008.9
59/2+ 7985.1
57/2- 7853.7
(55/2-) 7813.9
57/2+ 7672.1
55/2+ 7567.5
(53/2+) 7196.6
53/2- 7111.8
53/2+ 6976.7
51/2- 6888.6
51/2+ 6747.6
49/2- 6223.1
49/2+ 6206.7
45/2- 5851.7
47/2+ 5786.0
45/2+ 5479.0
41/2- 5122.6
43/2+ 5012.4
41/2+ 4928.2
39/2+ 4787.9
37/2- 4444.4
37/2+ 4288.0

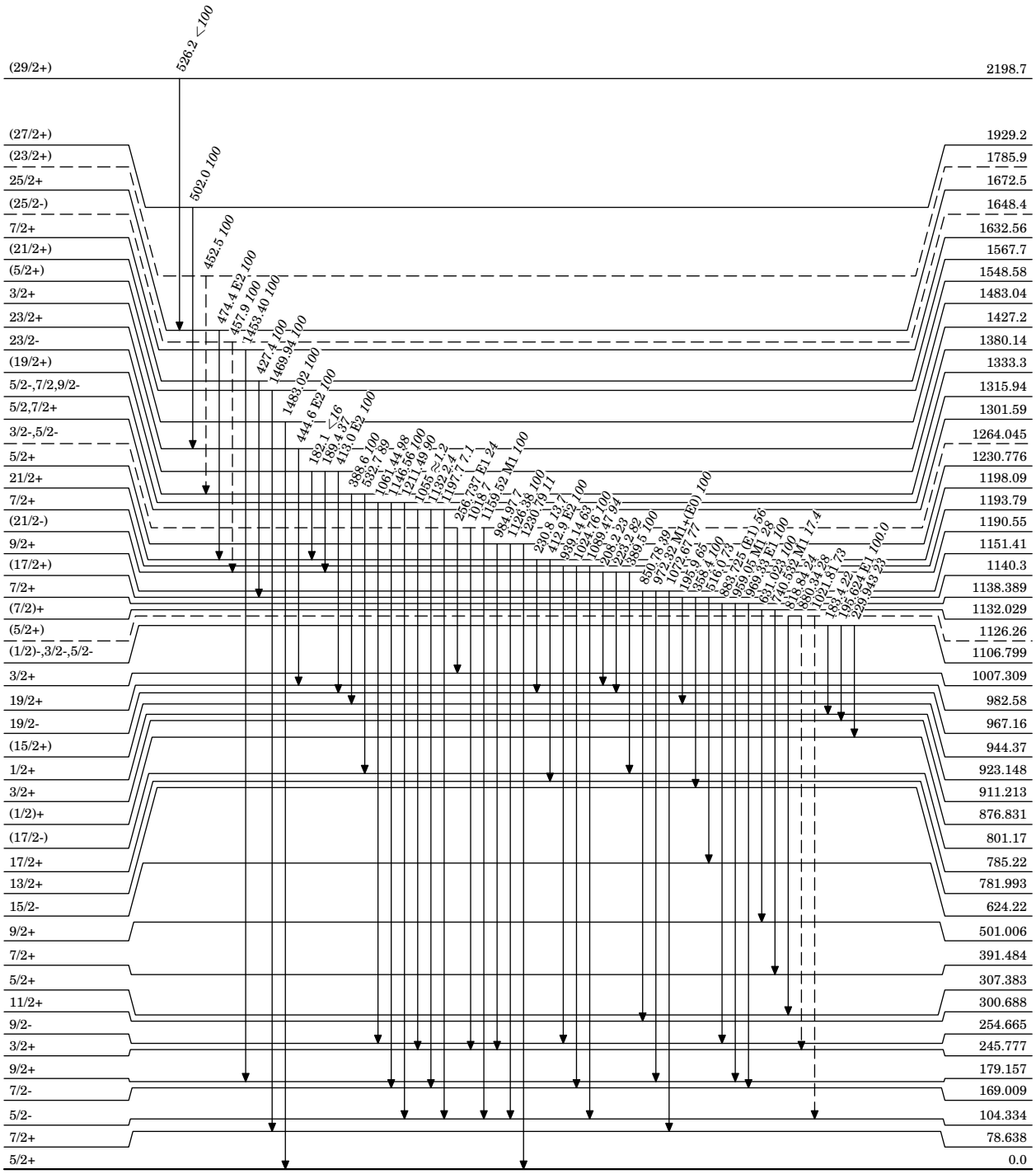
$^{155}_{68}Er_{87}$


37/2- 4444.4
37/2+ 4288.0
35/2+ 4219.2
33/2- 4093.0
33/2+ 3623.2
33/2+ 3557.0
31/2+ 3354.0
29/2+ 2838.1
27/2+ 2574.0
23/2+ 2229.6
25/2+ 2169.1
21/2+ 1572.7
1563.0
1430.9
17/2+ 1057.0
1038.5
959.6
760.0
606.75
595.1
584.47
13/2+ 563.22
11/2- 531.72
- 467.00
398.63
5/2-,7/2,9/2- 323.14
9/2- 226.74
- 151.63
5/2-,7/2-,9/2- 88.07
7/2- 0.0
225.2 [E1] 100
351.4 E2 70
731.0 E2 100
662.2 [M1+E2] 14
865.2 E2 100
469.8 4
739.0 [E1] 100
718.9 E2 100
515.9 [M1+E2]
780.0 E2 100
264.1 [M1] 0.6
669.0 E2 100
344.4 E2 100
404.9 M1+E2 65
656.9 M1+E2 100
666.6 36
596.4 E2 100
534.2 E2 100
524.5 100
1204.2 100
830.0 17
1057.2 100
475.4 E2 100
732.9 100
533.3 100
380.1 12
518.7 29
606.7 100
507.0 100
432.7 100
496.7 80
31.5 E1 100
305.0 7.5
531.7 100
315.2 E2(+M1) 100
379.1 M1(+E2) 100
247.0 E2(+M1) 25
171.5 E2(+M1) 100
323.2 M1+E2 100
226.8 M1(+E2) 68
63.5 M1(+E2) 100
151.6 E2 100
88.1 M1(+E2) 100
$^{155}_{68}Er_{87}$

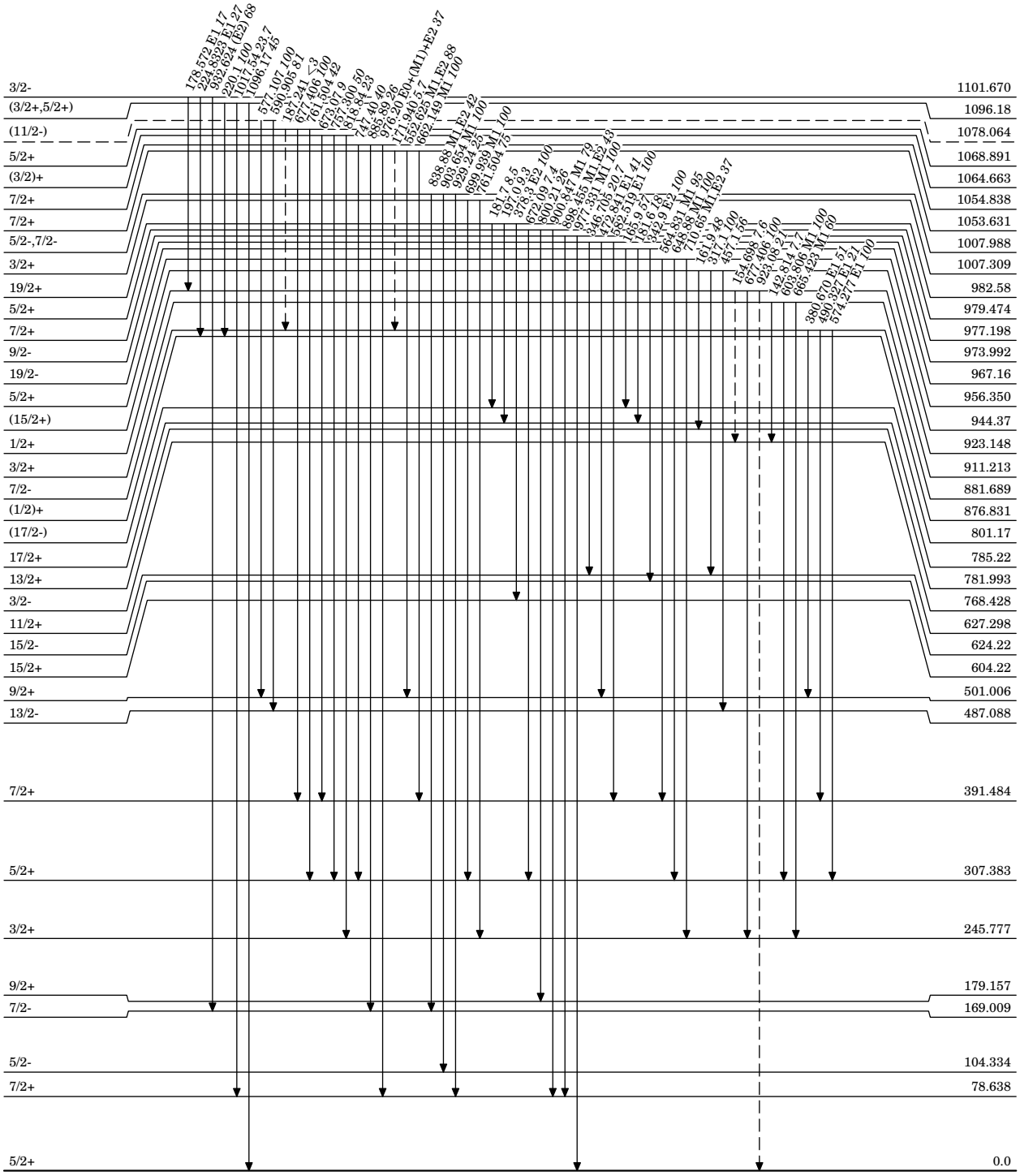
E(level)	Eγ	Iγ	Mult.
0.0			
78.638 *1*	78.6379 *10*	100	M1+E2
104.334 *1*	25.64 *6*	0.6 *1*	E1
	104.3346 *8*	100 *5*	E1
169.009 *1*	64.6761 *6*	15.2 *16*	M1+E2
	90.3725 *17*	25.8 *10*	E1
	169.0067 *9*	100 *6*	E1
179.157 *1*	100.5181 *11*	54.2 *14*	M1+E2
	179.1570 *6*	100 *6*	E2
245.777 *1*	141.4428 *6*	57 *3*	E1
	167.1482 *11*	2.04 *15*	E2
	245.771 *4*	100 *7*	M1+E2
254.665 *1*	75.5091 *5*	5.5 *5*	
	85.6568 *4*	28.2 *17*	M1+E2
	150.3292 *12*	3.2 *3*	E2
	176.0262 *5*	100 *6*	E1
300.688 *1*	121.5304 *8*	19.3 *19*	M1+E2
	222.046 *4*	100 *16*	E2
307.383 *1*	61.6069 *3*	100 *5*	M1(+E2)
	138.3746 *5*	39.0 *12*	E1
	203.048 *3*	21 *2*	E1
	228.7346 *18*	23.5 *17*	M1+E2
	307.384 *9*	5 *LE*	
357.169 *1*	102.5070 *7*	56.2 *20*	M1+E2
	178.0092 *8*	100 *6*	E1
	188.1601 *22*	15.2 *22*	E2
391.484 *1*	84.1017 *10*	100 *4*	M1+E2
	136.8172 *11*	20 *1*	E1
	145.7083 *21*	15.2 *6*	E2
	212.284 *3*	25 *2*	
	222.4732 *24*	15 *2*	E1
	287.146 *4*	25 *2*	E1
	312.929 *8*	2.3 *10*	
	391.34 *3*	3.6 *7*	
443.026 *8*	85.8 *2*	14 *1*	E1
	142.4 *2*	12.9 *6*	
	263.869 *8*	100 *5*	E2
487.088 *1*	129.9192 *8*	100 *6*	M1
	186.3955 *25*	99 *9*	E1
	232.466 *13*	70 *11*	E2
501.006 *1*	109.5219 *3*	100 *5*	M1(+E2)
	143.8349 *18*	13.0 *8*	
	193.6233 *16*	37 *4*	E2
	332.017 *4*	38 *3*	E1
	422.078 *13*	8.6 *13*	M1
604.22 *10*	117.5 *2*	9.6 *8*	
	161.1 *2*	10.7 *8*	
	303.6 *2*	100 *6*	E2
624.22 *10*	137.1 *2*	100 *5*	
	181.3 *2*	95 *5*	E1
	266.9 *2*	94 *5*	E2
627.298 *1*	126.2917 *10*	40 *7*	M1
	140.204 *9*	3.8 *12*	
	235.7 *5*	52 *8*	[E2]
	372.667 *7*	100 *10*	E1
	448.3 *2*	5 *2*	
768.428 *3*	461.046 *11*	53 *6*	E1
	522.670 *4*	100 *6*	E1
	664.122 *7*	30 *4*	M1
	768.27 *7*	3.7 *13*	
781.993 *4*	154.698 *4*	92 *22*	M1
	280.940 *13*	100 *38*	(E2)
	424.844 *18*	84 *18*	
785.22 *14*	160.8 *2*	22 *1*	E1
	181.0 *5*	9.0 *7*	
	342.3 *2*	100 *3*	E2
801.17 *12*	177.1 *2*	100 *5*	
	196.8 *2*	55 *3*	
	314.1 *2*	85 *4*	
817.669 *2*	426.177 *3*	78 *6*	E1
	510.296 *3*	100 *8*	E1
	571.885 *4*	80 *4*	E1
	648.56 *6*	31 *6*	M1
	713.31 *5*	31 *3*	M1
	817.61 *4*	9.8 *10*	
876.831 *4*	631.023 *4*	100 *9*	
	880 *10*	16 *3*	
881.689 *5*	380.670 *8*	51 *5*	E1
	490.327 *15*	21 *3*	E1
	574.277 *9*	100 *10*	E1
	627.021 *10*	30 *2*	M1
	712.7 *2*	16 *3*	
911.213 *4*	142.814 *4*	7.7 *9*	
	603.806 *9*	100 *7*	M1
	665.423 *5*	60 *5*	M1
	830 *20*	8.3 *17*	
	911	8.3 *17*	
923.148 *5*	154.698 *4*	7.6 *18*	
	677.406 *6*	100 *8*	
	923.08 *3*	21 *3*	
944.37 *17*	161.9 *5*	48 *6*	
	317.1 *2*	100 *9*	

E(level)	Eγ	Iγ	Mult.
	457.1 *5*	56 *6*	
956.350 *18*	564.831 *22*	95 *7*	M1
	648.88 *7*	100 *12*	M1
	710.65 *3*	37 *4*	M1,E2
967.16 *15*	165.9 *2*	57 *3*	
	181.6 *5*	18 *2*	
	342.9 *2*	100 *5*	E2
973.992 *5*	346.705 *6*	20.7 *14*	
	472.841 *17*	41 *6*	E1
	582.519 *9*	100 *9*	E1
	616.825 *21*	20.4 *20*	M1
	719.34 *10*	8.7 *20*	
977.198 *15*	898.455 *20*	43 *3*	M1,E2
	977.331 *23*	100 *5*	M1
979.474 *12*	672.09 *5*	7.4 *15*	
	800.21 *6*	26 *3*	
	900.847 *16*	79 *9*	M1
	979.463 *17*	100 *4*	E0+(M1)+E2
982.58 *19*	181.7 *5*	8.5 *4*	
	197.0 *5*	9.3 *4*	
	378.3 *2*	100 *4*	E2
1007.309 *6*	699.939 *7*	100 *7*	M1
	761.504 *10*	75 *7*	
1007.988 *10*	838.88 *4*	42 *3*	M1,E2
	903.654 *10*	100 *9*	M1
	929.24 *8*	25 *12*	
	1008.03 *3*	63 *4*	E1
1022 *3*			
1053.631 *7*	171.940 *5*	5.7 *9*	
	552.625 *10*	88 *6*	M1,E2
	662.149 *8*	100 *6*	M1
	746.18 *3*	48 *4*	M1
1054.838 *19*	747.40 *3*	40 *4*	
	885.89 *4*	26 *3*	
	976.20 *4*	37 *7*	E0+(M1)+E2
	1054.86 *4*	100 *7*	M1
1064.663 *16*	673.07 *7*	9 *2*	
	757.300 *20*	50 *4*	
	818.84 *3*	23 *3*	
	1064.71 *5*	100 *13*	M1
1068.891 *6*	187.241 *6*	3 *LT*	
	677.406 *6*	100 *8*	
	761.504 *10*	42 *4*	
1078.064 *14*	577.107 *18*	100 *10*	
	590.905 *21*	81 *16*	
1096.18 *6*	220.1 *6*	100 *25*	
	1017.54 *11*	23.7 *7*	
	1096.17 *6*	45 *4*	
1101.670 *4*	178.572 *7*	17 *4*	E1
	224.8323 *25*	27 *3*	E1
	932.624 *16*	68 *5*	(E2)
	997.355 *25*	100 *5*	(E2)
1106.799 *5*	183.4 *5*	22 *5*	
	195.624 *6*	100.0 *16*	E1
	229.943 *5*	23 *4*	
	1002.38 *5*	47 *5*	M1
1118 *3*			
1126.26 *3*	818.84 *3*	24 *3*	
	880.34 *5*	28 *5*	
	1021.81 *11*	73 *9*	
	1126.38 *6*	100 *14*	
1132.029 *4*	631.023 *4*	100 *9*	
	740.532 *14*	17.4 *17*	M1
1138.389 *12*	883.725 *13*	56 *4*	(E1)
	959.05 *8*	28 *6*	M1
	969.33 *3*	100 *6*	E1
	1034.15 *4*	41 *3*	
	1138.31 *12*	31 *3*	
1140.3 *3*	195.9 *5*	65 *4*	
	358.4 *5*	100 *6*	
	516.0 *5*	73 *6*	
1151.41 *4*	850.78 *10*	39 *7*	
	972.32 *6*	100 *13*	M1+(E0)
	1072.67 *6*	77 *13*	
1190.55 *17*	208.2 *5*	23 *2*	
	223.2 *2*	82 *4*	
	389.5 *2*	100 *7*	
1193.79 *3*	939.14 *5*	63 *5*	
	1024.76 *5*	100 *12*	
	1089.47 *5*	94 *9*	
1198.09 *21*	230.8 *5*	13.7 *8*	
	412.9 *2*	100 *5*	E2
1203 *3*			
1230.776 *25*	984.97 *7*	7 *2*	
	1126.38 *6*	100 *14*	
	1230.79 *3*	11 *5*	
1264.045 *9*	256.737 *7*	24 *3*	E1
	1018	7 *1*	
	1159.52 *10*	100 *6*	M1
	1262.4 *5*	17 *5*	
1301.59 *5*	1055	1.2 *AP*	
	1132	2.4 *5*	

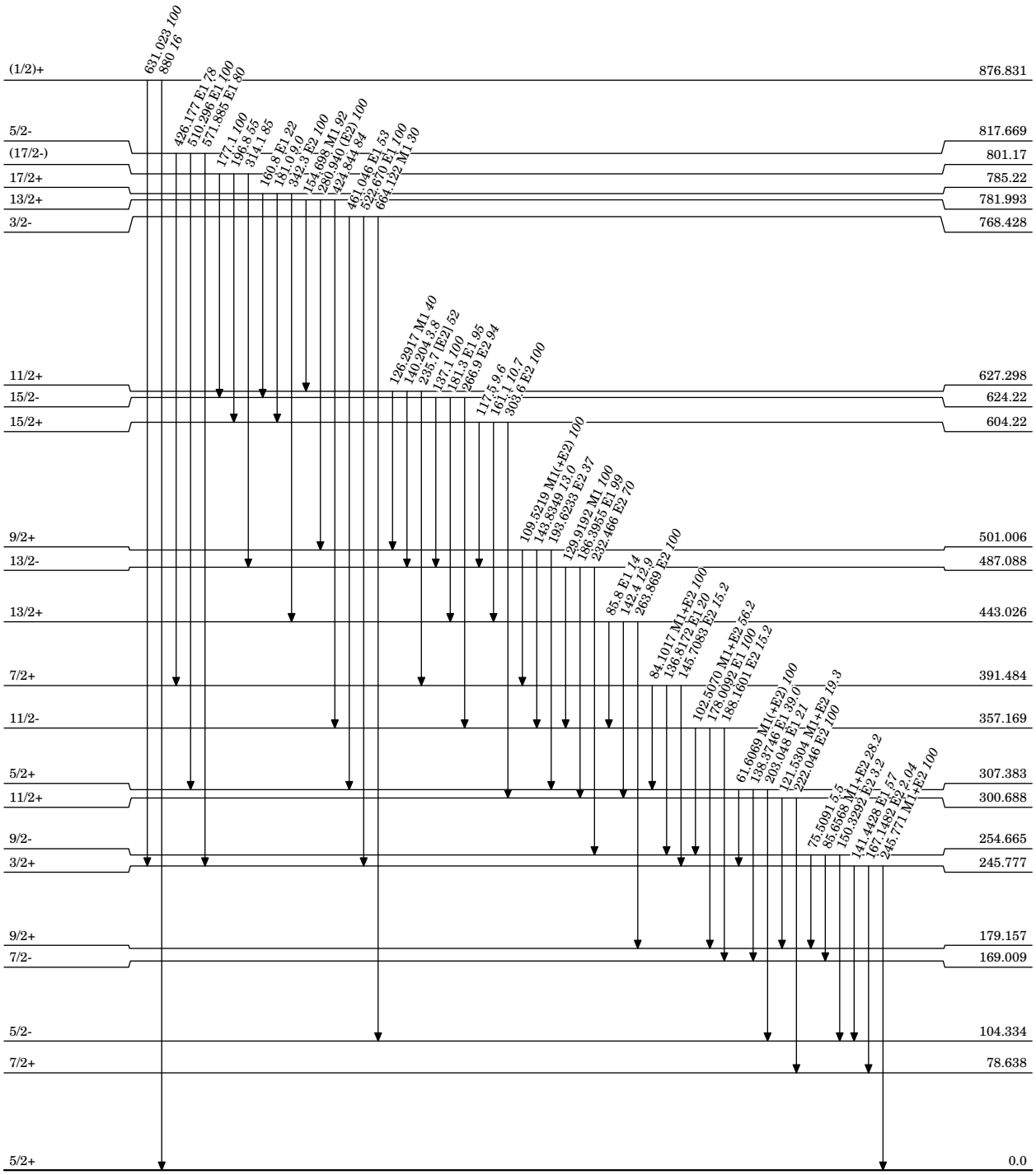
E(level)	Eγ	Iγ	Mult.
	1197.7 *4*	7.1 *14*	
	1223.02 *9*	49 *6*	
	1301.56 *5*	100 *10*	
1315.94 *6*	1061.44 *7*	98 *10*	
	1146.56 *12*	100 *9*	
	1211.49 *14*	90 *12*	
1318			
1333.3 *4*	388.6 *5*	100 *9*	
	532.7 *5*	89 *9*	
1342 *AP*			
1352 *AP*			
1377 *3*			
1380.14 *22*	182.1 *5*	16 *LT*	
	189.4 *5*	37 *5*	
	413.0 *2*	100 *6*	E2
1400 *AP*			
1421 *4*			
1427.2 *3*	444.6 *2*	100 *5*	E2
1478 *3*			
1483.04 *8*	1483.02 *8*	100 *6*	
1515 *AP*			
1526 *AP*			
1548.58 *18*	1469.94 *18*	100 *11*	
1567.7 *6*	427.4 *5*	100 *9*	
1632.56 *17*	1453.40 *17*	100 *22*	
1648.4 *6*	457.9 *5*	100 *10*	
1672.5 *4*	474.4 *2*	100 *6*	E2
1736 *4*			
1785.9 *6*	452.5 *5*	100 *21*	
1820 *4*			
1845 *AP*			
1929.2 *6*	502.0 *5*	100 *5*	
2198.7 *6*	526.2 *5*	100 *LT*	


(29/2+) 2198.7
(27/2+) 1929.2
(23/2+) 1785.9
25/2+ 1672.5
(25/2-) 1648.4
7/2+ 1632.56
(21/2+) 1567.7
(5/2+) 1548.58
3/2+ 1483.04
23/2+ 1427.2
23/2- 1380.14
(19/2+) 1333.3
5/2-,7/2,9/2- 1315.94
5/2,7/2+ 1301.59
3/2-,5/2- 1264.045
5/2+ 1230.776
21/2+ 1198.09
7/2+ 1193.79
(21/2-) 1190.55
9/2+ 1151.41
(17/2+) 1140.3
7/2+ 1138.389
(7/2)+ 1132.029
(5/2+) 1126.26
(1/2)-,3/2-,5/2- 1106.799
3/2+ 1007.309
19/2+ 982.58
19/2- 967.16
(15/2+) 944.37
1/2+ 923.148
3/2+ 911.213
(1/2)+ 876.831
(17/2-) 801.17
17/2+ 785.22
13/2+ 781.993
15/2- 624.22
9/2+ 501.006
7/2+ 391.484
5/2+ 307.383
11/2+ 300.688
9/2- 254.665
3/2+ 245.777
9/2+ 179.157
7/2- 169.009
5/2- 104.334
7/2+ 78.638
5/2+ 0.0
526.2 <100
502.0 100
452.5 100
474.4 E2 100
457.9 100
453.40 100
427.4 100
469.94 100
483.02 100
444.6 E2 100
182.1 <16
189.4 37
413.0 E2 100
388.6 100
532.7 89
1061.44 98
1146.56 100
1211.49 90
1055.3 12
1132.2 4.4
1197.7 7.1
256.737 E1 24
1018.7
1159.52 M1 100
984.97 7
1136.38 100
1230.79 11
230.8 13.7
412.9 E2 100
939.14 63
1024.76 100
1089.47 94
208.2 23
223.2 82
389.3 100
850.78 39
972.39 M1+(E0) 100
1074.67 77
195.9 65
358.4 100
516.0 73
883.725 (E1) 56
959.05 M1 28
969.33 E1 100
631.023 100
740.532 M1 17.4
818.84 24
880.34 28
1021.81 73
183.4 22
195.621 E1 100.0
229.943 23

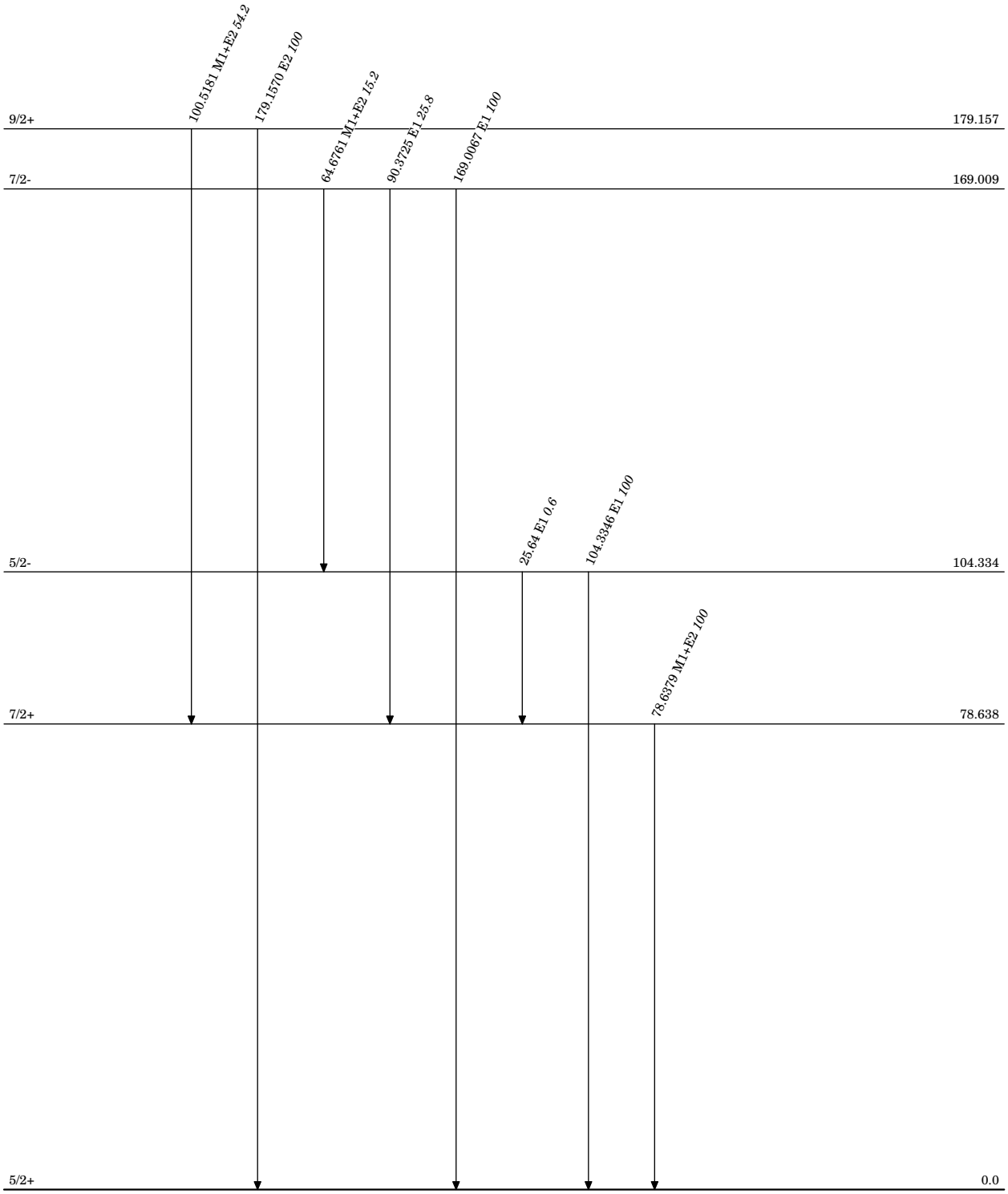
$^{155}_{63}Eu_{92}$


3/2- 1101.670
(3/2+,5/2+) 1096.18
(11/2-) 1078.064
5/2+ 1068.891
(3/2)+ 1064.663
7/2+ 1054.838
7/2+ 1053.631
5/2-,7/2- 1007.988
3/2+ 1007.309
19/2+ 982.58
5/2+ 979.474
7/2+ 977.198
9/2- 973.992
19/2- 967.16
5/2+ 956.350
(15/2+) 944.37
1/2+ 923.148
3/2+ 911.213
7/2- 881.689
(1/2)+ 876.831
(17/2-) 801.17
17/2+ 785.22
13/2+ 781.993
3/2- 768.428
11/2+ 627.298
15/2- 624.22
15/2+ 604.22
9/2+ 501.006
13/2- 487.088
7/2+ 391.484
5/2+ 307.383
3/2+ 245.777
9/2+ 179.157
7/2- 169.009
5/2- 104.334
7/2+ 78.638
5/2+ 0.0
178.572 E1 17
224.8323 E1 27
932.624 (E2) 68
220.1 100
1101.54 23.7
1096.17 45
577.107 100
590.905 81
187.241 <2
677.406 100
761.504 42
673.07 9
757.900 50
518.84 23
747.40 40
895.89 26
976.20 E0+(M1)+E2 37
171.940 5.7
1555.625 M1,E2 88
662.145 M1 100
838.88 M1,E2 42
903.654 M1,E2 42
929.24 25 M1 100
699.959 M1 100
761.504 75
181.7 8.5
197.0 9.3
378.3 E2 100
672.09 7.4
800.21 26
898.847 M1 79
977.331 M1,E2 43
346.705 M1 100
472.841 E1 41
552.519 E1 100
165.9 57
181.6 18
342.9 E2 100
564.831 M1 95
648.88 M1 100
710.65 M1,E2 37
161.9 49
517.1 100
457.1 56
154.698 7.6
677.406 100
925.08 21
142.814 7.7
603.806 M1 100
665.423 M1 69
380.670 E1 51
490.397 E1 21
574.277 E1 100

$^{155}_{63}Eu_{92}$


(1/2)+ 876.831
5/2- 817.669
(17/2-) 801.17
17/2+ 785.22
13/2+ 781.993
3/2- 768.428
11/2+ 627.298
15/2- 624.22
15/2+ 604.22
9/2+ 501.006
13/2- 487.088
13/2+ 443.026
7/2+ 391.484
11/2- 357.169
5/2+ 307.383
11/2+ 300.688
9/2- 254.665
3/2+ 245.777
9/2+ 179.157
7/2- 169.009
5/2- 104.334
7/2+ 78.638
5/2+ 0.0
631.023 100
880 16
426.177 E1 78
510.296 E1 100
571.885 E1 80
177.1 100
196.8 55
314.1 85
160.8 E1 22
181.0 9.0
342.3 E2 100
154.698 M1 92
280.940 (E2) 100
424.844 84
461.046 E1 53
522.670 E1 100
664.122 M1 30
126.2917 M1 40
140.204 3.8
235.7 (E2) 52
137.1 100
181.3 E1 95
266.9 E2 94
117.5 9.6
161.1 10.7
305.6 E2 100
109.5219 M1(+E2) 100
143.8349 13.0
193.6233 E2 37
129.9192 M1 100
186.3955 E1 99
252.466 E2 70
85.8 E1 14
142.4 12.9
263.869 E2 100
84.1017 M1+E2 100
136.8172 E1 20
145.7083 E2 15.2
102.5070 M1+E2 56.2
178.0092 E1 100
188.1601 E2 15.2
61.6069 M1(+E2) 100
138.3746 E1 39.0
203.048 E1 21
121.5304 M1+E2 19.3
222.046 E2 100
75.5091 5.5
85.6568 M1+E2 28.2
150.3292 E2 3.2
141.4428 E1 57
167.1482 E2 2.04
245.771 M1+E2 100

$^{155}_{63}Eu_{92}$


100.5181 M1+E2 54.2
179.1570 E2 100
64.6761 M1+E2 15.2
90.3725 E1 25.8
169.0067 E1 100
25.64 E1 0.6
104.3346 E1 100
78.6379 M1+E2 100
9/2+
179.157
7/2-
169.009
5/2-
104.334
7/2+
78.638
5/2+
0.0

$^{155}_{63}Eu_{92}$

E(level)	Eγ	Iγ	Mult.
0.0			
60.0108 *6*	60.0086 *10*	100	M1+E2
86.5468 *6*	26.531 *21*	1.03 *6*	E1
	86.5479 *10*	100	E1
105.3110 *6*	18.763 *2*	0.23 *3*	M1+E2
	45.2990 *10*	6.21 *17*	E1
	105.3083 *10*	100.0 *20*	E1
107.5806 *10*	21.035 *4*	100	E2
117.9986 *7*	10.4183 *13*	5.3 *6*	M1+E2
	31.444 *7*	10.6 *23*	M1+E2
	57.9890 *10*	100 *8*	E1
121.05 *19*	13.47 *19*	100	E1
146.0696 *7*	86.0591 *10*	100 *10*	M1+E2
	146.0710 *10*	33.2 *20*	E2
214.3511 *14*	106.771 *1*	100	E2
230.1286 *13*	112.131 *2*	85 *7*	E2
	122.548 *1*	100 *7*	(M1,E2)
251.7056 *10*	105.636 *1*	93 *11*	M1+E2
	133.7	7.6 *4*	[E1]
	191.691 *7*	100 *14*	E2
266.6471 *7*	120.579 *2*	0.80 *8*	E1
	148.650 *1*	35.5 *3*	M1+E2
	161.334 *1*	37.0 *4*	M1+E2
	180.103 *1*	100 *2*	M1+E2
	206.635 *3*	2.28 *15*	E1
268.6233 *7*	150.630 *2*	0.059 *7*	(E2)
	163.311 *1*	100 *1*	M1+E2
	182.078 *1*	2.49 *11*	E2
	208.614 *3*	1.29 *25*	E1
	268.625 *2*	16.0 *11*	E1
282.57 *24*	161.4 *2*	100	M1+E2
287.0039 *7*	181.694 *1*	100 *1*	E1
	200.459 *1*	54.5 *12*	E1
	226.991 *1*	35.2 *5*	M1(+E2)
	286.999 *4*	75.1 *15*	M1+E2
321.3793 *6*	175.310 *1*	32 *3*	M1,E2
	203.382 *1*	21.1 *22*	E1
	216.069 *1*	100 *7*	E1
	234.832 *1*	24.3 *15*	E1
	261.369 *1*	29 *5*	M1
	321.383 *2*	11.5 *11*	M1(+E2)
326.0881 *8*	208.089 *2*	37 *4*	M1(+E2)
	218.508 *4*	1.29 *18*	(E2)
	220.778 *2*	100 *11*	M1(+E2)
	239.540 *1*	40 *4*	M1(+E2)
	266.068 *4*	4.7 *5*	E1
350.4355 *9*	232.437 *1*	100 *9*	M1,E2
	242.855 *1*	80 *7*	M1
	245.129 *3*	14.3 *14*	E2
	263.884 *4*	12.7 *14*	
367.6340 *8*	80.6 *1*	0.3 *2*	(E1)
	99.010 *2*	1.3 *6*	M1,E2
	262.322 *2*	100 *10*	M1(+E2)
	281.087 *2*	6.2 *6*	E2
	367.638 *2*	12.8 *10*	E1
392.317 *4*	140.610 *4*	46 *2*	M1+E2
	246.253 *9*	100	E2
	284.8	13 *1*	E1(+M2)
393.5320 *11*	141.826 *1*	32 *3*	M1+E2
	247.462 *4*	46 *4*	
	275.535 *6*	6.2 *7*	
	306.986 *3*	100 *10*	E1
	333.520 *6*	29 *3*	M1
	393.57 *4*	3.5 *10*	
423.4122 *13*	102.036 *11*	2.1 *9*	E1
	156.766 *2*	12.7 *16*	M1,E2
	277.361 *7*	6.1 *9*	
	305.428 *8*	100 *9*	M1
	315.845 *14*	23.2 *23*	M1,(E2)
	336.864 *2*	98 *9*	M1
	363.391 *12*	36 *9*	E1
423.81 *17*	209.4 *2*	100	E2
427.2375 *7*	59.602 *1*	2.3 *9*	E2(+M1)
	101.148 *2*	20 *5*	M1+E2
	105.864 *1*	1.4 *3*	
	158.612 *1*	6.6 *7*	E2
	160.589 *2*	74 *8*	M1(+E2)
	309.21 *3*	0.33 *5*	
	321.926 *3*	11 *1*	M1+E2
	340.690 *1*	83 *8*	M1(+E2)
	367.225 *2*	100 *9*	E1(+M2)
	427.18 *1*	2.2 *1*	E1
450.5634 *8*	82.933 *2*	1.2 *2*	
	124.476 *2*	5.6 *6*	E1
	129.182 *1*	2.0 *4*	(M1,E2)
	304.530 *18*	1.9 *2*	
	364.019 *3*	95 *6*	E1
	390.552 *1*	90 *6*	M1
	450.559 *3*	100 *7*	M1
451.3714 *8*	83.738 *1*	1.9 *3*	
	164.366 *2*	24.6 *16*	M1,E2
	182.748 *1*	14.1 *14*	E1

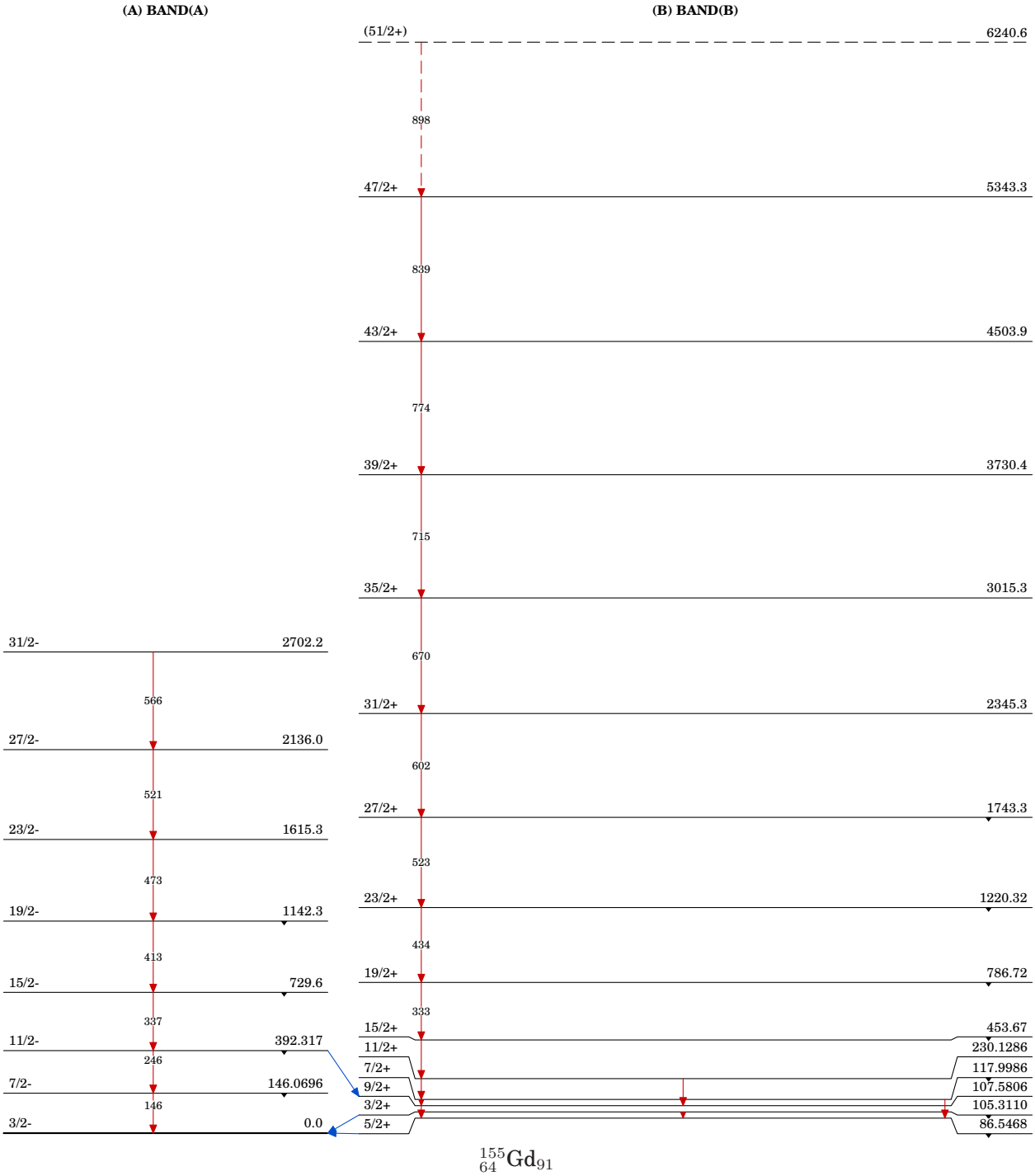
E(level)	Eγ	Iγ	Mult.
	346.059 *2*	72 *7*	E1
	391.360 *2*	15.8 *15*	E2
	451.370 *3*	100 *10*	M1,E2
453.67 *13*	223.6 *2*	100 *11*	E2
	239.3 *2*	43 *5*	M1+E2
454.4746 *10*	133.094 *3*	1.55 *24*	
	336.472 *2*	56 *5*	E1
	367.929 *1*	100 *10*	E1
	394.474 *8*	4.5 *6*	M1,E2
	454.472 *3*	39 *4*	M1
463.83 *25*	181.1 *2*	100 *16*	M1+E2
	342.9 *2*	26 *3*	E2
480 *15*			
485.975 *4*	234.270 *3*	100	(E1)
488.7206 *8*	61.484 *1*	16 *3*	M1+E2
	138.285 *1*	18.6 *19*	E2,M1
	162.631 *1*	8 *AP*	[M1,E2]
	201.0 *10*	6 *4*	
	220.099 *1*	75 *8*	M1,E2
	222.069 *9*	8.3 *8*	
	342.647 *4*	3.6 *8*	
	370.721 *5*	100 *8*	M1+E2
	381.06 *3*	2.3 *2*	
	383.414 *7*	11.4 *11*	M1
	402.173 *2*	37 *3*	M1
	428.7 *1*	0.4 *2*	
	488.65 *15*	7.5 *13*	E1
534.30 *10*	141.9	22 *1*	M1+E2
	282.6 *1*	100	E2
	304.2	6.6 *4*	[E1]
553.371 *4*	301.682 *9*	6.4 *18*	
	435.365 *5*	100 *9*	E1
	466.824 *10*	16.1 *14*	
	493.374 *17*	8.3 *14*	
559.369 *4*	272.354 *6*	1.23 *9*	M1
	499.37 *5*	2.1 *3*	
	559.374 *4*	100 *9*	M1(+E2)
581.4551 *13*	158.044 *4*	2.6 *4*	
	187.923 *1*	9.9 *11*	
	231.033 *6*	0.99 *25*	
	260.071 *3*	5.3 *5*	(M1,E2)
	294.453 *10*	1.48 *25*	M1
	312.824 *7*	1.2 *1*	
	463.460 *4*	100 *10*	E1
	476.162 *9*	8.6 *9*	E1
	521.472 *10*	5.8 *9*	M1,E2
	581.430 *12*	20 *2*	E2
592.1420 *18*	141.5 *1*	2.3 *12*	(M1)
	270.758 *3*	9.8 *7*	M1,(E2)
	305.131 *9*	5.9 *5*	M1
	323.519 *4*	29.7 *25*	E1
	325.488 *6*	6.2 *8*	(E1)
	446.081 *4*	15.6 *14*	
	486.852 *8*	49 *4*	E1
	505.590 *9*	100 *6*	E1
	532.129 *8*	92 *6*	E2
	592.137 *7*	43 *4*	E0+E2,M1
610.8424 *16*	183.605 *2*	75 *9*	(E2)
	187.434 *3*	58 *5*	E2,M1
	284.745 *4*	87 *9*	M1
	344.204 *6*	58 *5*	M1
	359.093 *18*	100 *9*	
614.8546 *19*	293.460 *8*	0.86 *12*	M1
	327.871 *9*	0.86 *16*	(M1,E2)
	528.36 *3*	0.70 *16*	
	554.843 *3*	100 *9*	M1(+E2)
	614.854 *3*	93 *9*	E2(+M1)
647.7904 *20*	193.310 *4*	5.2 *6*	M1,E2
	254.256 *6*	8.5 *6*	
	321.711 *5*	8.8 *12*	
	379.165 *4*	19.1 *18*	E1
	396.095 *6*	8.2 *6*	
	501.713 *7*	60 *6*	M1(+E2)
	529.793 *8*	66 *6*	E1
	542.474 *17*	15 *2*	
	587.78 *3*	29 *3*	E0+E2,M1
	647.796 *7*	100 *12*	E2(+M1)
658.985 *4*	337.59 *4*	1.6 *8*	
	371.78 *9*	1.5 *12*	
	512.918 *7*	61 *5*	M1
	540.94 *3*	3.3 *8*	
	598.974 *6*	100 *10*	M1,E2
663.6 *3*	199.6 *2*	100 *15*	(M1+E2)
	381.1 *2*	46 *4*	E2
692.4 *3*			
714.0 *6*			
720.6168 *17*	269.245 *4*	2.36 *19*	
	270.051 *5*	3.5 *4*	E1
	433.604 *7*	1.55 *19*	
	451.991 *3*	12.4 *12*	M1
	615.302 *3*	100 *9*	M1
	634.053 *22*	12.4 *19*	

E(level)	Eγ	Iγ	Mult.
721.0	721.0	100	
729.6	195.4	19 *1*	M1+E2
	337.3	100	E2
	515.3	6.7 *6*	[E1]
736.74 *22*	313.0 *2*	100	E2
752.549 *4*	301.986 *6*	3.9 *4*	
	329.143 *9*	7.6 *7*	M1
	634.543 *11*	100 *9*	
	647.258 *20*	20 *9*	
	666.012 *9*	87 *7*	M1,(E2)
	692.46 *4*	21 *3*	(E1)
	752.57 *10*	7 *3*	
754.8	540.5	100	
786.72 *18*	333.1 *2*	100 *6*	E2
	362.8 *2*	37 *3*	(M1+E2)
786.896 *6*	300.926 *15*	12 *1*	
	535.199 *9*	49 *5*	
	640.848 *23*	100 *16*	
	679.49 *11*	20.4 *21*	
804.382 *21*	318.422 *21*	23 *18*	
	574.03 *8*	100 *14*	
815.731 *3*	361.256 *16*	0.99 *22*	
	364.374 *11*	3.19 *22*	
	489.646 *10*	5.9 *6*	(M1,E2)
	547.05 *3*	13.5 *12*	M1,E2
	549.09 *4*	3.1 *16*	
	710.422 *10*	73 *13*	
	729.165 *17*	100 *10*	M1
827.9 *5*			
860.17 *21*			
872.809 *3*	418.336 *3*	21.5 *22*	E1
	551.415 *12*	13 *1*	
	767.456 *24*	100 *11*	
	873.07 *17*	32 *4*	
880.7 *3*	217.1 *2*	100 *10*	M1+E2
	416.8 *2*	56 *3*	E2
889.3	675.1	100	
896.9	167.4	9 *1*	M1+E2
	362.8	100	E2
	443.2	0.9 *2*	[E1]
931.5	717.2	100	
950 *2*			
987.1 *4*			
1002.953 *3*	187.222 *2*	10.5 *10*	E1
	282.324 *8*	3.00 *25*	
	388.098 *3*	15 *2*	M1
	548.54 *3*	10 *1*	
	734.79 *20*	100 *7*	E1
	1002.97 *3*	85 *10*	
1012.892 *3*	197.163 *4*	3.7 *5*	
	292.265 *4*	3.6 *3*	
	365.112 *11*	3.6 *6*	(M1)
	453.541 *18*	3.4 *8*	
	524.197 *18*	9.9 *12*	E1
	562.27 *12*	3.3 *8*	
	725.82 *4*	27 *3*	E2
	744.290 *22*	30 *4*	(E1)
	907.62 *3*	100 *12*	(E1)
	926.30 *20*	85 *18*	
	953.00 *5*	27 *3*	(E1)
	1013.06 *7*	42 *8*	
1023.89 *20*			
1028.028 *15*	368.98 *8*	100 *28*	(E1)
	468.70 *3*	36 *4*	
	577.53 *3*	91 *11*	
1028.1	882.0		
	968.0		
	1028.2		
1035.218 *3*	219.487 *2*	17 *2*	M1,E2
	314.604 *8*	22 *2*	M1,(E2)
	420.363 *11*	5.7 *14*	
	667.613 *20*	34 *4*	M1,E2
	768.62 *3*	46 *11*	(M1,E2)
	1035.29 *7*	100 *21*	
1057.1 *6*			
1060.597 *3*	57.644 *1*	3.4 *21*	
	739.2 *3*	11 *3*	
	1000.56 *7*	72 *13*	(E1,E2)
	1060.75 *14*	100 *9*	
1078.430 *24*	419.42 *3*	23 *5*	
	519.08 *4*	63 *8*	
	791.70 *14*	100 *12*	
1086.846 *7*	334.305 *7*	23 *3*	M1
	366.221 *15*	13 *1*	
	635.446 *19*	31 *9*	
	719.35 *15*	23 *4*	
	820.07 *11*	63 *8*	
	981.6 *3*	100 *14*	
1092.2 *4*			
1104.792 *6*	317.907 *8*	14 *4*	
	445.804 *8*	22 *2*	
	551.415 *12*	13 *1*	

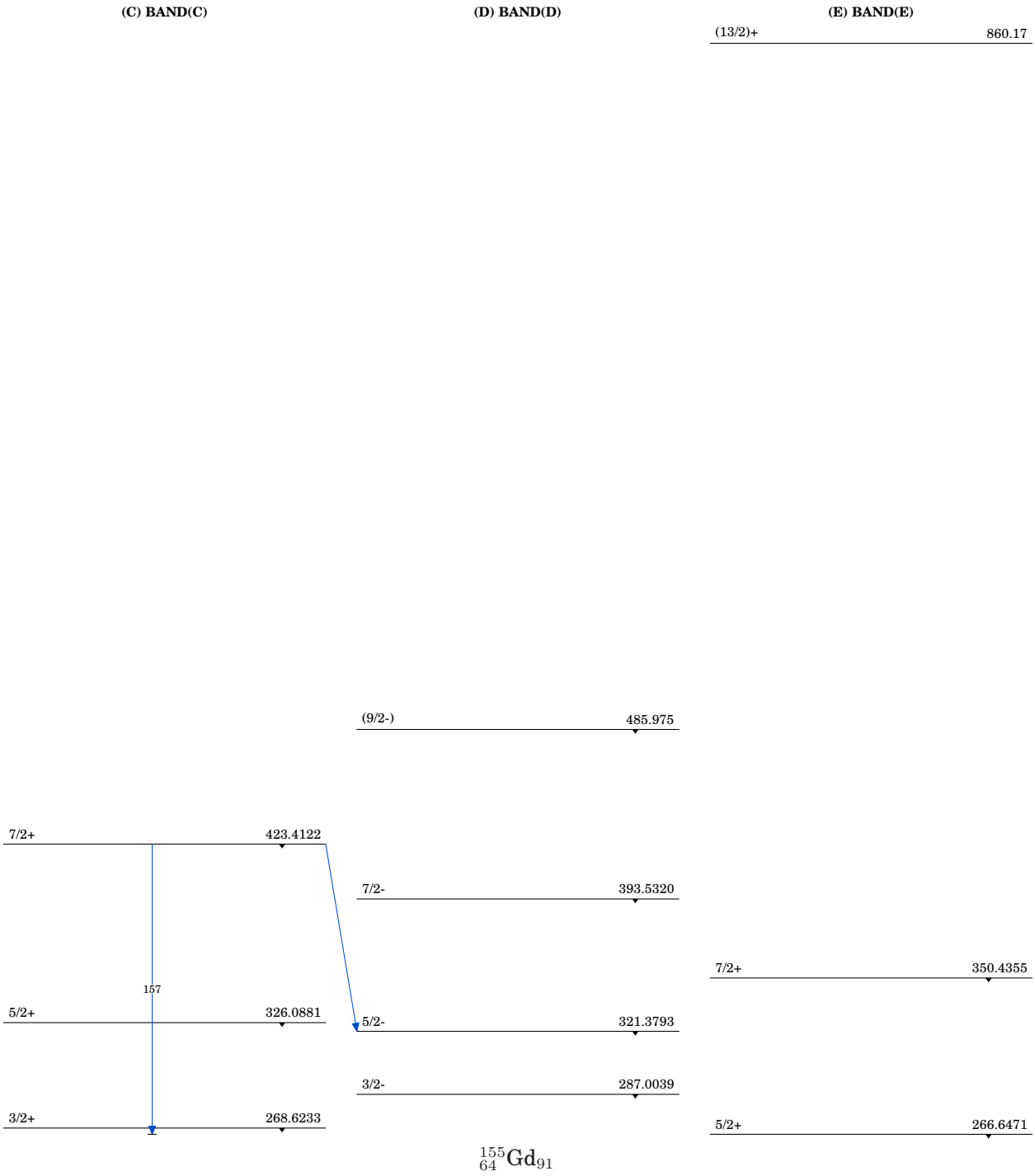
E(level)	Eγ	Iγ	Mult.
	681.31 *6*	16 *2*	
	817.93 *14*	61 *6*	
	837.97 *23*	9 *2*	
	986.4 *3*	100 *14*	E1
	997.39 *21*	34 *4*	
	1105.1 *3*	68 *9*	
1107.3	352.5		Q
	683.4		
1112.02 *21*			
1113.1 *3*	232.4 *2*	100 *10*	M1+E2
	449.5 *2*	92 *5*	E2
1129.840 *3*	126.887 *1*	16 *2*	E2
	470.890 *20*	3.7 *10*	
	537.65 *9*	19 *6*	
	570.54 *5*	6.6 *15*	
	679.49 *11*	7.1 *7*	
	860.9 *3*	7.8 *15*	
	1043.45 *6*	63 *17*	
	1069.97 *7*	100 *10*	E2
1140.9 *4*			
1142.3	245.4	18 *12*	M1+E2
	412.8	100 *42*	E2
1144.3 *3*	407.6 *2*	100	E2
1146.8 *5*			
1158.9 *3*			
1173.3 *3*			
1192.850 *9*	703.93 *11*	73 *33*	
	765.68 *11*	100 *13*	(E2,M1)
1197.610 *17*	410.73 *3*	18.3 *25*	(E1)
	445.054 *19*	8.3 *8*	
	1110.91 *20*	100 *17*	
	1137.66 *12*	95 *9*	E2(+M1)
1220.32 *22*	433.5 *2*	100 *6*	E2
	483.6 *2*	20 *2*	(M1+E2)
1225.007 *9*	352.198 *10*	7.2 *15*	
	409.278 *17*	6.5 *15*	
	831.41 *6*	100 *3*	
1230.25 *21*	741.74 *22*	44 *11*	
	1082.6 *6*	100 *23*	
1233.6 *4*			
1246.7 *4*			
1255.8	366.7		Q
	831.9		
1269.6 *5*			
1278 *2*			
1286.7 *6*			
1292.58 *5*	476.80 *7*	100 *20*	(E1)
	837.97 *23*	29 *7*	
	869.37 *14*	77 *15*	
1297.177 *7*	104.327 *6*	6.0 *13*	(E1)
	192.386 *3*	3.3 *7*	
	808.38 *3*	53 *10*	E2,M1
	1150.4 *3*	100 *17*	
1303.2	371.7		Q
	879.5		
1306.97 *22*			
1312.8 *9*			
1326.5	184.3	6 *2*	[M1+E2]
	429.7	100	E2
	539.4	8 *2*	[E1]
1327 *2*			
1332.05 *7*	772.76 *8*	28 *10*	
	1245.51 *20*	66 *8*	
	1331.66 *18*	100 *16*	(E1)
1335.16 *22*			
1343.312 *12*	238.524 *10*	7.5 *6*	M1,E2
	695.40 *6*	22 *9*	
	1016.95 *20*	66 *9*	
	1022.29 *21*	59 *9*	
	1056.32 *18*	36 *8*	
	1283.28 *16*	100 *13*	
1359.88 *4*	712.32 *10*	26 *4*	
	1254.4 *3*	50 *6*	
	1273.50 *17*	100 *15*	
1359.9 *4*	246.6 *2*	86 *9*	D
	479.3 *2*	100 *6*	Q
1363.631 *9*	258.830 *8*	3.3 *15*	
	276.84 *3*	4.2 *15*	(M1)
	335.637 *18*	7.6 *12*	
	715.81 *4*	67 *9*	
	1245.51 *20*	100 *12*	
	1257.6 *5*	97 *15*	
1368.2 *9*			
1380.5 *5*			
1387.7 *8*			
1399.2 *4*			
1405.0 *3*			
1415.9 *7*			
1425.0 *5*			
1427.5 *5*			
1434.42 *5*	982.91 *13*	100 *11*	E1
	1347.8 *10*	26 *17*	

E(level)	Eγ	Iγ	Mult.
1437.680 *11*	332.909 *13*	11.7 *17*	M1,E2
	424.761 *15*	6.0 *13*	
	1111.87 *21*	50 *23*	
	1150.4 *3*	100 *17*	
	1350.2 *8*	40 *20*	
1452.3 *8*			
1458.1 *5*			
1460.6 *4*	996.8 *2*	100	
1466.1 *4*			
1470.02 *3*	981.6 *3*	45 *6*	
	1015.54 *3*	72 *9*	
	1183.2 *4*	100 *17*	E1
	1351.3 *5*	47 *8*	
	1362.5 *3*	68 *11*	
	1409.75 *24*	70 *11*	
1474.53 *5*	40.101 *7*	100 *31*	
	181.949 *3*	17 *3*	(E2)
	461.57 *8*	15 *2*	E1
	1388.7 *4*	53 *11*	
1481.8 *4*			
1484.5 *7*			
1492.7 *5*			
1505.9 *4*			
1517.11 *4*	157.225 *4*	2.1 *4*	
	701.31 *4*	8 *3*	
	869.37 *14*	12 *2*	
	1062.8 *3*	100 *18*	E1
	1431.0 *4*	37 *7*	
1522.5	415.2		Q
	785.8		
1526.1 *6*			
1536.8 *4*			
1542.5 *6*			
1546.1 *3*			
1551.3 *8*			
1554.8 *9*			
1561.5 *5*			
1576 *2*			
1581 *15*			
1587 *5*			
1604 *5*			
1615.3	473.0	100	[E2]
1619.2 *4*	259.2 *2*	57 *3*	M1+E2
	506.1 *2*	100 *6*	[E2]
1626 *5*			
1635.4 *3*	491.1 *2*	100	E2
1653 *5*			
1675 *1*	1675	100	
1679.2 *4*	218.4 *2*	100	
1686.8	431.2		Q
	950.0		
1704 *5*			
1740.7	437.6		Q
	1004.1		
1743.3 *3*	523.0 *2*	100 *7*	Q
	599.0 *2*	20 *5*	
1745 *5*			
1794 *5*			
1809.4	482.9	100	
1822 *5*			
1843 *5*			
1869 *5*			
1889.8 *4*	270.5 *2*	57 *3*	M1+E2
	530.0 *2*	100 *5*	[E2]
1899 *5*			
1913.1 *4*	233.6 *2*	100 *20*	D
	452.7 *2*	80 *17*	
1932 *5*			
1982 *1*	1982	100	
1994.8	472.3		Q
	850.4		
2017 *1*	2017	100	
2136.0	520.7	100	
2161.0 *4*	247.9 *2*	62 *19*	D
	481.9 *2*	100 *15*	
2170.4 *4*	280.5 *2*	49 *4*	
	551.2 *2*	100 *7*	Q
2188.5	501.8		Q
	1044.1		
2199.1 *4*	563.7 *2*	100	E2
2226.1	485.6		Q
	1081.6		
2283 *1*	2283	100	
2329 *1*	2329	100	
2331.9	522.5	100	
2345.3 *3*	602.0 *2*	100	
2421.6 *4*	260.7 *2*	44 *16*	
	508.4 *2*	100 *12*	Q
2456 *1*	2396	98 *4*	
	2456	100	
2460.0 *4*	289.5 *2*	39 *4*	
	570.2 *2*	100 *7*	Q

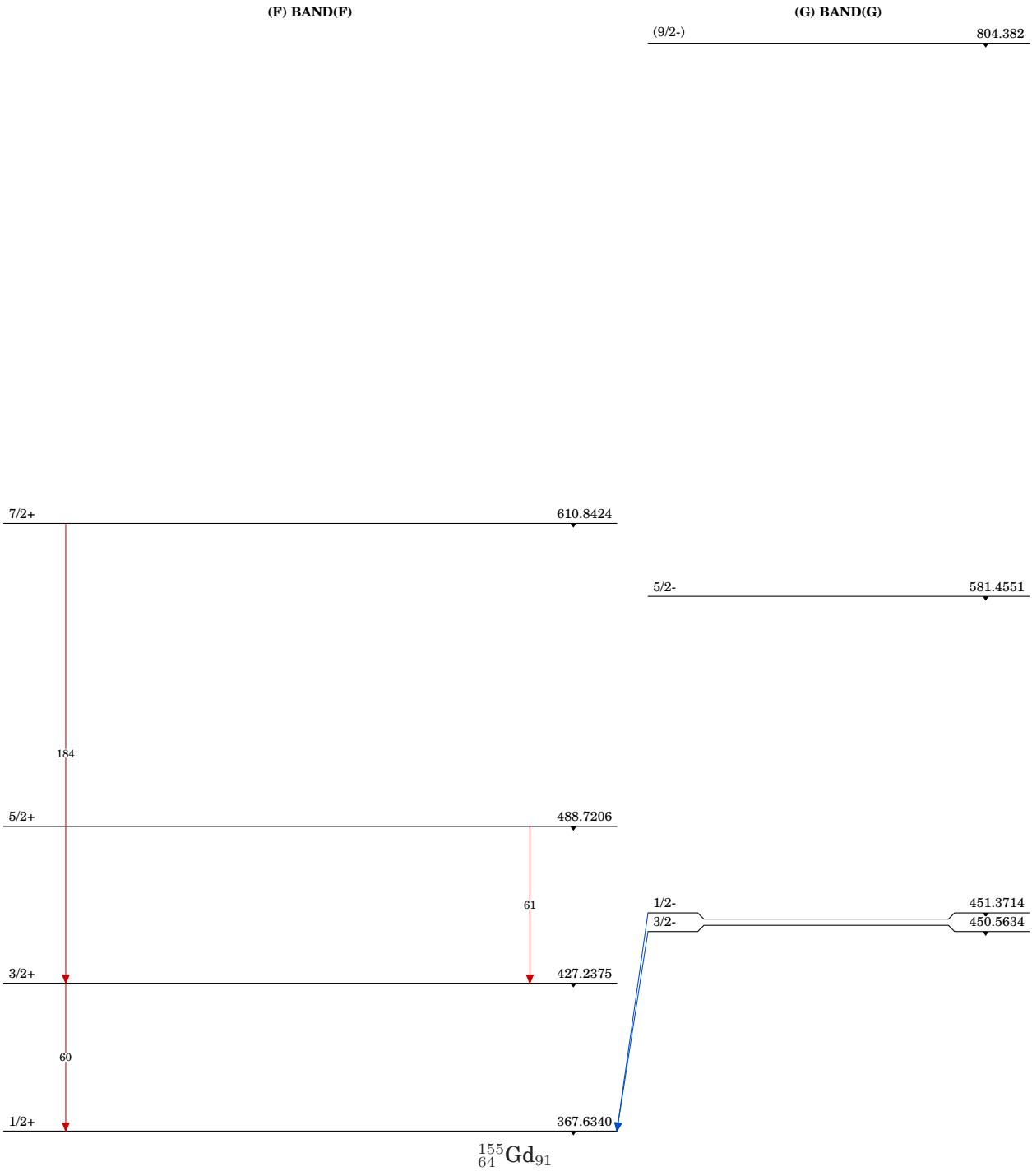
E(level)	Eγ	Iγ	Mult.
2558 *1*	2558	100	
2596 *1*	2596	100	
2645 *1*	2645	100	
2655 *1*	2537	225 *24*	
	2655	100	
2689 *1*	2689	100	
2694.5 *5*	273.0 *8*		
	533.5 *2*	100 *31*	
2702.2	566.2	100	
2728 *1*	2728	100	
2743 *1*	2743	100	
2752.3	526.4	100	Q
2756 *1*	2698	1.7E+2 *5*	
	2755	100	
2758.0	569.8		Q
	1122.8		
2758.3 *4*	297.8 *2*	38 *4*	
	587.8 *2*	100 *9*	
2768 *1*	2768	100	
2814 *1*	2814	100	
2819 *1*	2819	100	
2825.4 *5*	626.3 *2*	100	E2
2826 *1*	2826	100	
2854 *1*	2736	76 *10*	
	2794	48 *9*	
	2854	100	
2865 *1*	2805	1.1E+2 *3*	
	2865	100	
2872 *1*	2872	100	
2883.7	551.8	100	
2978.4 *5*	556.8 *2*	100	
3011 *1*	3011	100	
3015.3 *4*	670.0 *2*	100	Q
3064.4 *4*	306.3 *2*	33 *5*	D
	604.5 *2*	100 *12*	
3123 *1*	3063	59 *25*	
	3123	100	
3199 *1*	3199	100	
3276.0 *5*	581.5 *2*	100	
3305 *1*	3305	100	
3379.8 *5*	316.0 *8*	24 *5*	
	621.5 *2*	100 *8*	Q
3505.5 *5*	680.3 *2*	100	Q
3579.1 *5*	600.7 *2*	100	
3702.8 *5*	638.3 *2*	100	
3730.4 *5*	715.1 *2*	100	Q
4038.9 *5*	659.1 *2*	100	
4234.6 *5*	728.9 *2*	100	Q
4379.6 *10*	676.8 *8*	100	
4503.9 *5*	773.5 *2*	100	
4735.4 *10*	696.5 *8*	100	
5009.4 *6*	774.8 *2*	100	
5343.3 *5*	839.4 *2*	100	
5829	820		
6240.6 *6*	897.6 *2*	100	

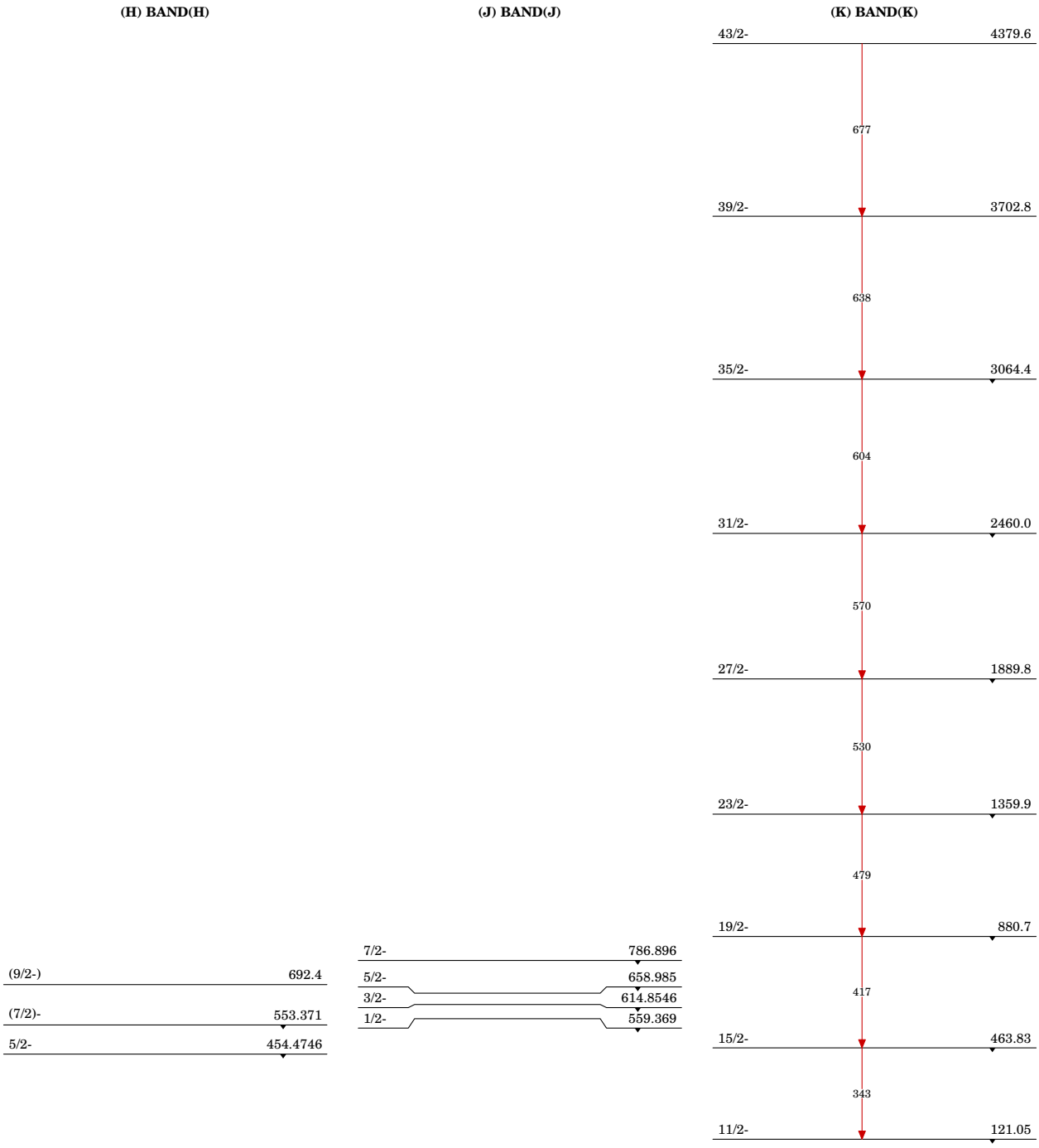

(A) BAND(A)
(B) BAND(B)
(51/2+)
6240.6
898
47/2+
5343.3
839
43/2+
4503.9
774
39/2+
3730.4
715
35/2+
3015.3
670
31/2+
2345.3
602
27/2+
1743.3
523
23/2+
1220.32
434
19/2+
786.72
333
15/2+
453.67
11/2+
230.1286
7/2+
117.9986
9/2+
107.5806
3/2+
105.3110
5/2+
86.5468
31/2-
2702.2
566
27/2-
2136.0
521
23/2-
1615.3
473
19/2-
1142.3
413
15/2-
729.6
337
11/2-
392.317
246
7/2-
146.0696
146
3/2-
0.0

$^{155}_{64}Gd_{91}$

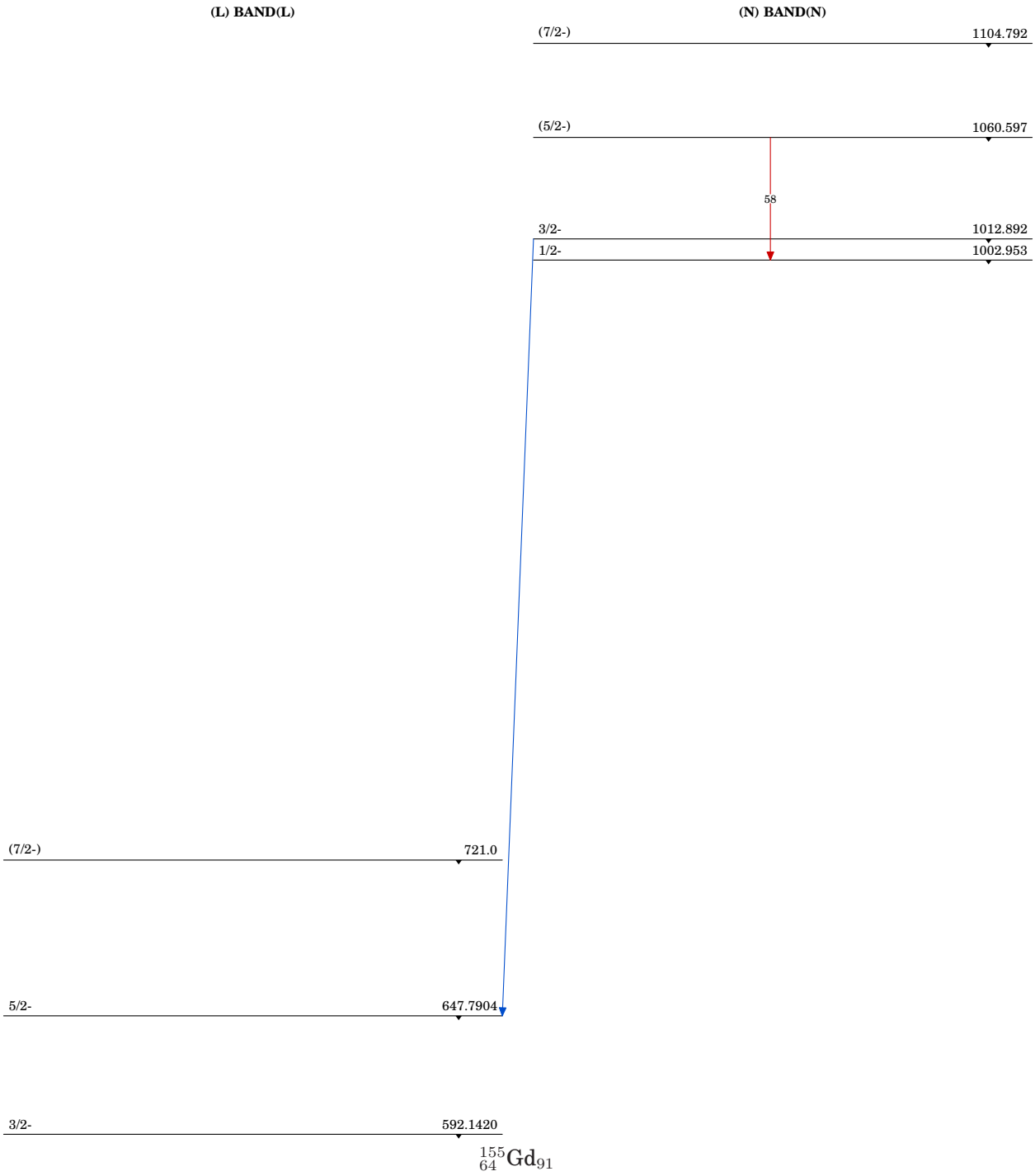

(C) BAND(C)
(D) BAND(D)
(E) BAND(E)
(13/2)+
860.17
(9/2-)
485.975
7/2+
423.4122
7/2-
393.5320
7/2+
350.4355
157
5/2+
326.0881
5/2-
321.3793
3/2-
287.0039
3/2+
268.6233
5/2+
266.6471

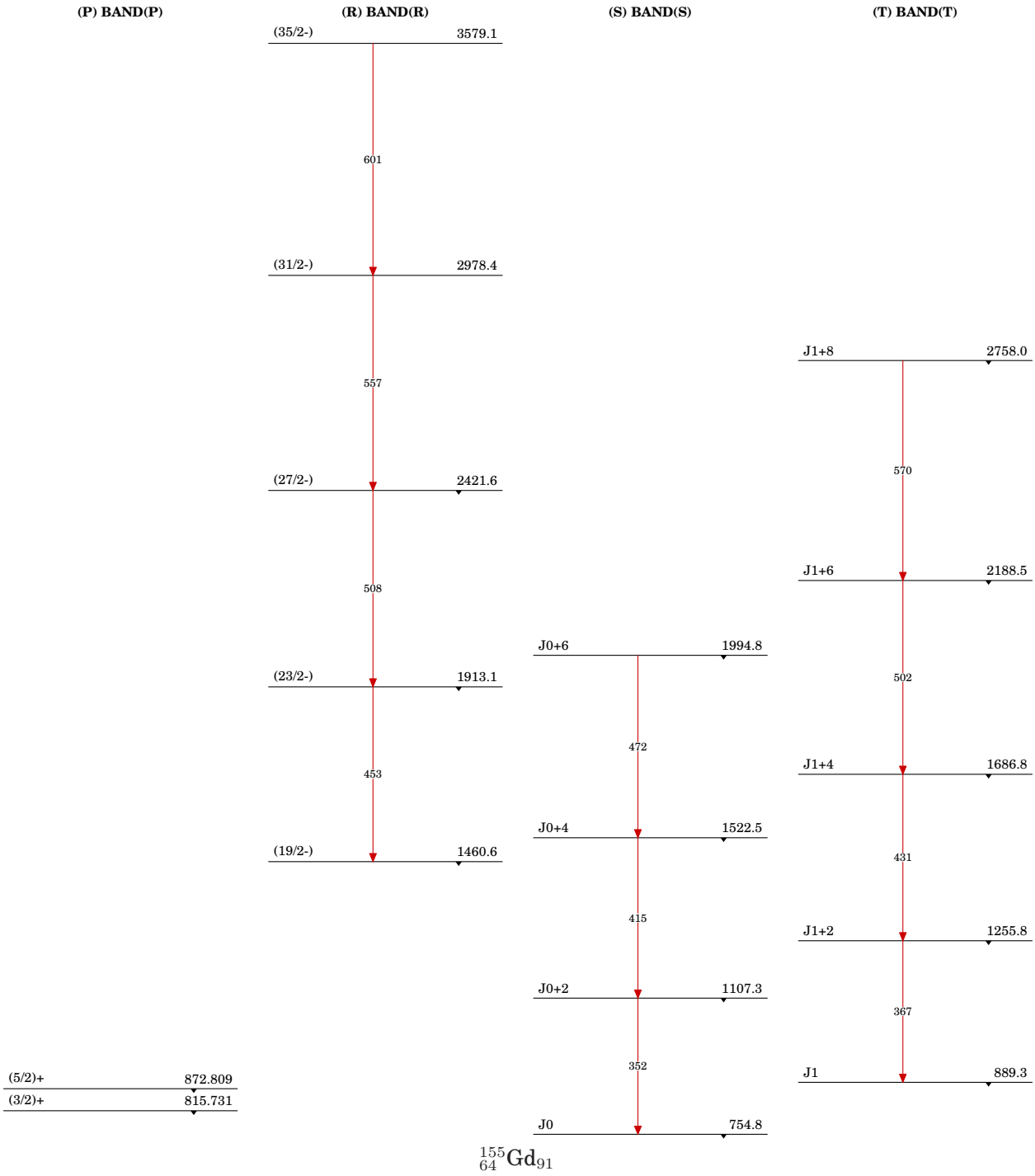
$^{155}_{64}Gd_{91}$


(F) BAND(F)
(G) BAND(G)
(9/2-)
804.382
7/2+
610.8424
5/2-
581.4551
184
5/2+
488.7206
61
1/2-
451.3714
3/2-
450.5634
3/2+
427.2375
60
1/2+
367.6340
$^{155}_{64}Gd_{91}$

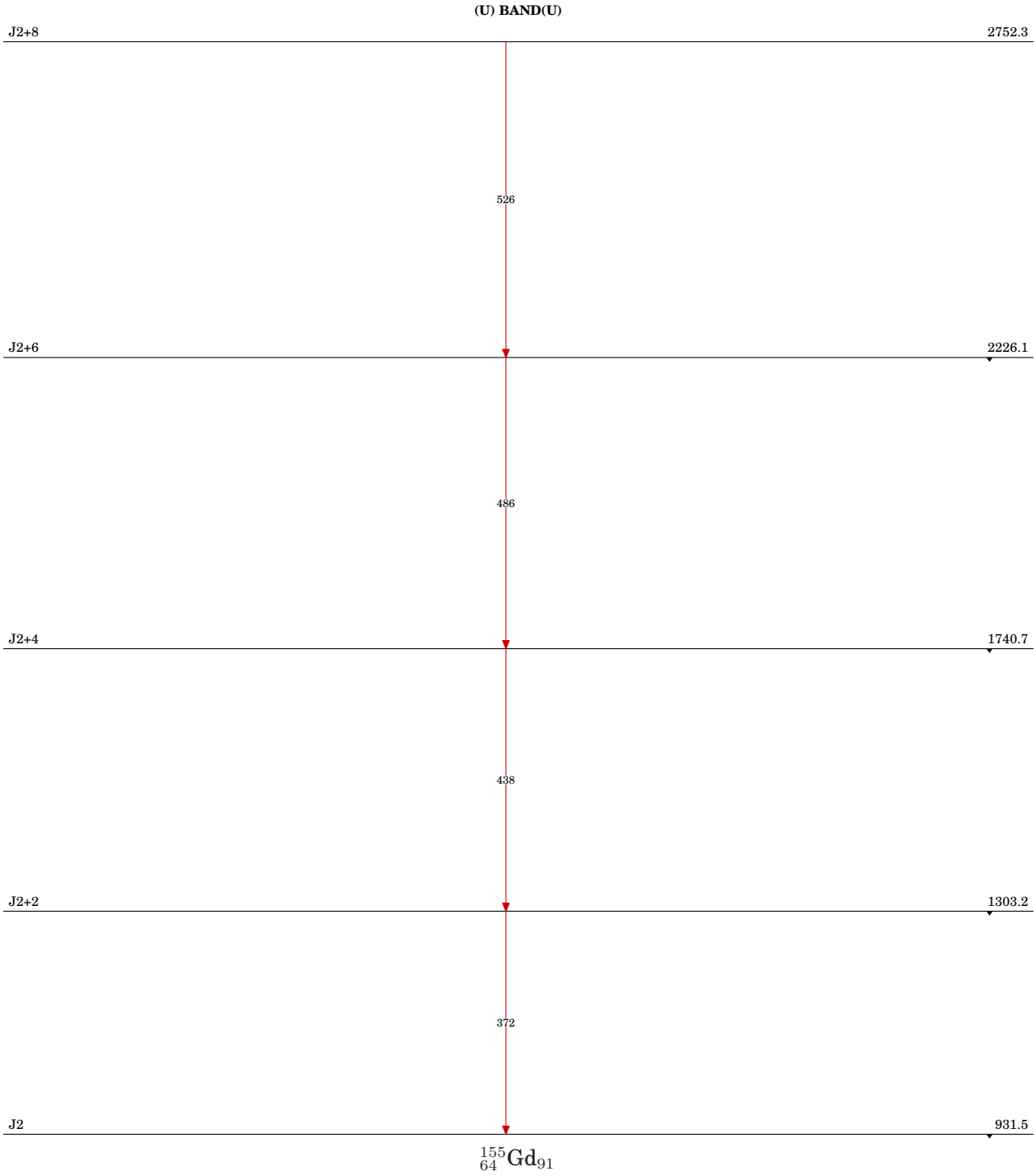

(H) BAND(H)
(9/2-) 692.4
(7/2)- 553.371
5/2- 454.4746
(J) BAND(J)
7/2- 786.896
5/2- 658.985
3/2- 614.8546
1/2- 559.369
(K) BAND(K)
43/2- 4379.6
677
39/2- 3702.8
638
35/2- 3064.4
604
31/2- 2460.0
570
27/2- 1889.8
530
23/2- 1359.9
479
19/2- 880.7
417
15/2- 463.83
343
11/2- 121.05

$^{155}_{64}Gd_{91}$

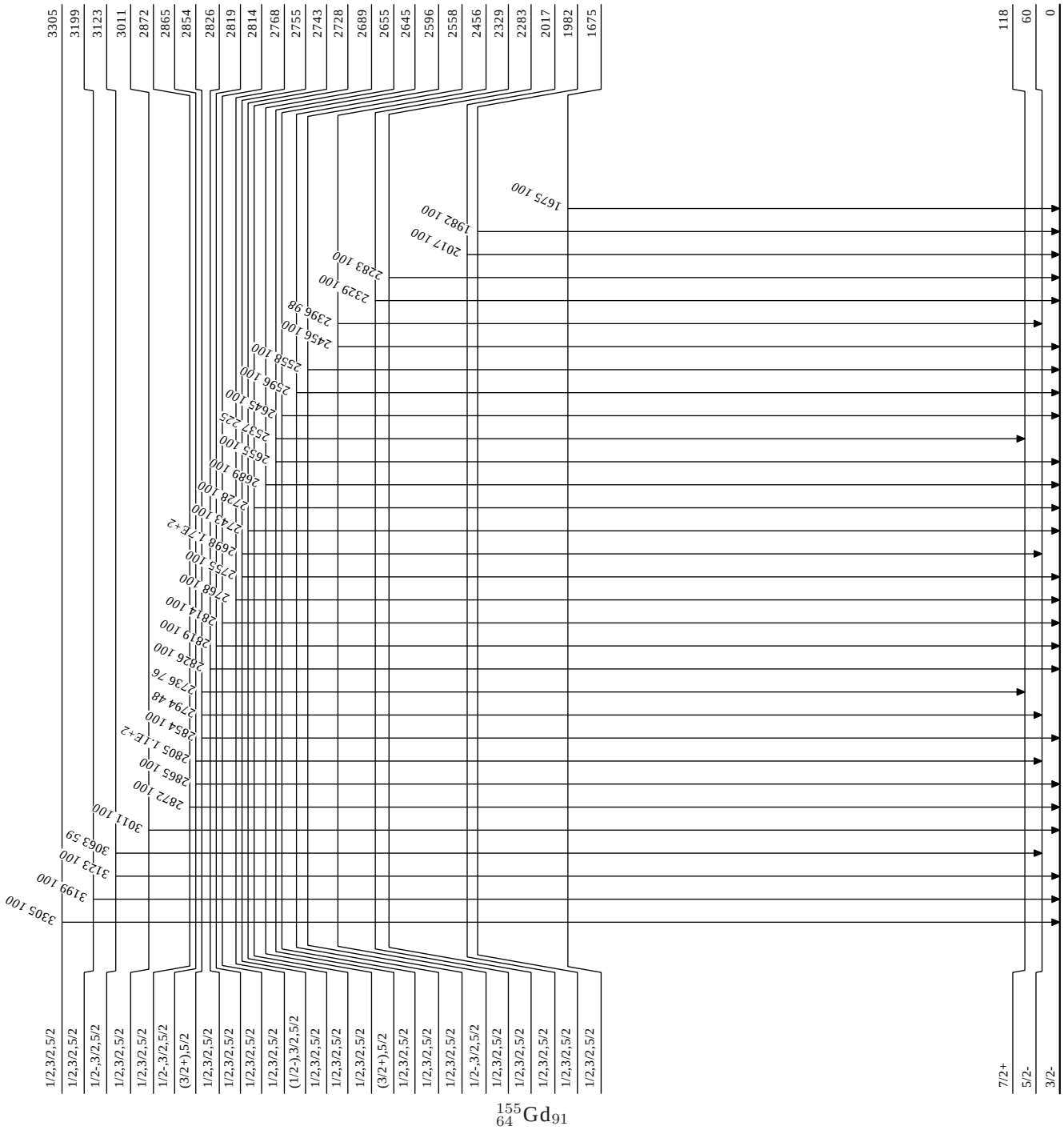

(L) BAND(L)
(N) BAND(N)
(7/2-)
1104.792
(5/2-)
1060.597
58
3/2-
1012.892
1/2-
1002.953
(7/2-)
721.0
5/2-
647.7904
3/2-
592.1420
$^{155}_{64}Gd_{91}$


(P) BAND(P)
(R) BAND(R)
(S) BAND(S)
(T) BAND(T)
(35/2-) 3579.1
601
(31/2-) 2978.4
557
(27/2-) 2421.6
508
(23/2-) 1913.1
453
(19/2-) 1460.6
J0+6 1994.8
472
J0+4 1522.5
415
J0+2 1107.3
352
J0 754.8
J1+8 2758.0
570
J1+6 2188.5
502
J1+4 1686.8
431
J1+2 1255.8
367
J1 889.3
(5/2)+ 872.809
(3/2)+ 815.731

$^{155}_{64}Gd_{91}$

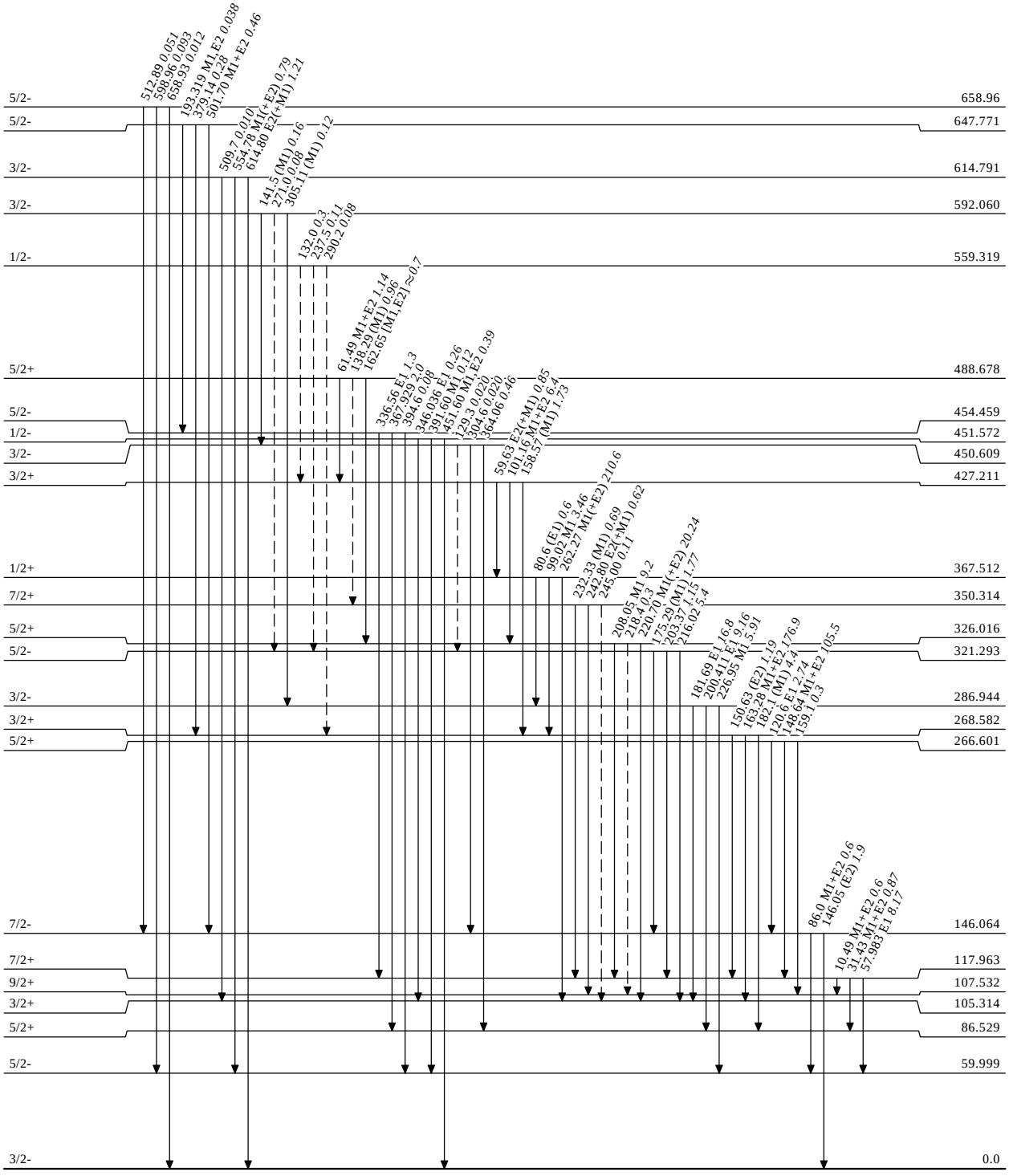

(U) BAND(U)
J2+8
2752.3
526
J2+6
2226.1
486
J2+4
1740.7
438
J2+2
1303.2
372
J2
931.5
$^{155}_{64}Gd_{91}$

E(level)	Eγ	Iγ	Mult.
0			
60			
118			
1675 *1*	1675	100	
1982 *1*	1982	100	
2017 *1*	2017	100	
2283 *1*	2283	100	
2329 *1*	2329	100	
2456 *1*	2396	98 *4*	
	2456	100	
2558 *1*	2558	100	
2596 *1*	2596	100	
2645 *1*	2645	100	
2655 *1*	2537	225 *24*	
	2655	100	
2689 *1*	2689	100	
2728 *1*	2728	100	
2743 *1*	2743	100	
2755 *1*	2698	1.7E+2 *5*	
	2755	100	
2768 *1*	2768	100	
2814 *1*	2814	100	
2819 *1*	2819	100	
2826 *1*	2826	100	
2854 *1*	2736	76 *10*	
	2794	48 *9*	
	2854	100	
2865 *1*	2805	1.1E+2 *3*	
	2865	100	
2872 *1*	2872	100	
3011 *1*	3011	100	
3123 *1*	3063	59 *25*	
	3123	100	
3199 *1*	3199	100	
3305 *1*	3305	100	

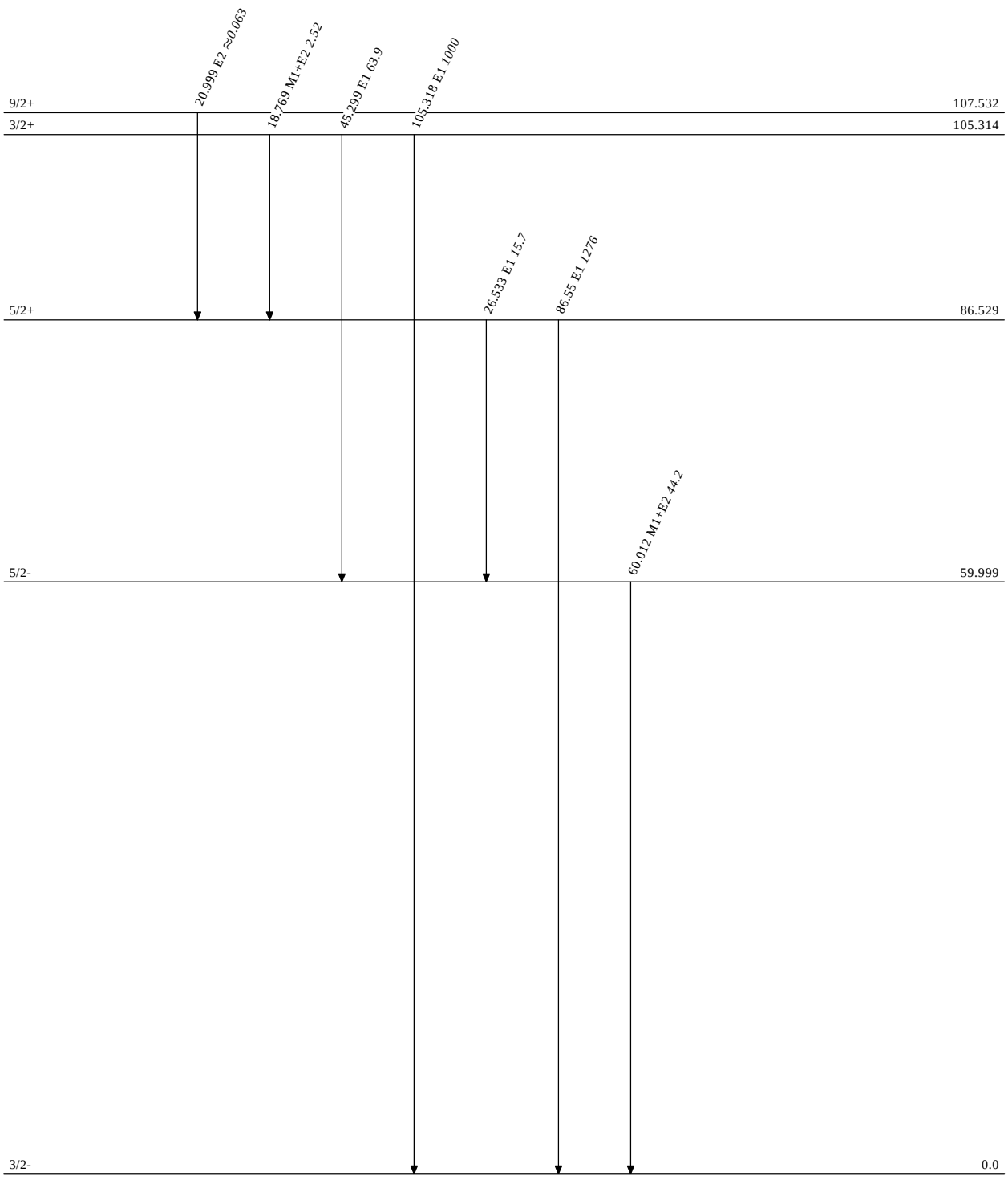

3305 3199 3123 3011 2872 2865 2854 2826 2819 2814 2768 2755 2743 2728 2689 2655 2645 2596 2558 2456 2329 2283 2017 1982 1675
118 60 0
1675 100
1982 100
2017 100
2283 100
2329 100
2396 98
2456 100
2558 100
2596 100
2645 100
2737 225
2755 100
2689 100
2728 100
2743 100
2698 1.7E+2
2755 100
2768 100
2814 100
2819 100
2826 100
2736 76
2794 48
2854 100
2805 1.1E+2
2865 100
2872 100
3011 100
3063 59
3123 100
3199 100
3305 100
1/2,3/2,5/2 1/2,3/2,5/2 1/2-,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2-,3/2,5/2 (3/2+),5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 (1/2+),3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 (3/2+),5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2-,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2 1/2,3/2,5/2
7/2+ 5/2- 3/2-
$^{155}_{64}Gd_{91}$

E(level)	Eγ	Iγ	Mult.
0.0			
59.999 *2*	60.012 *3*	44.2 *15*	M1+E2
86.529 *4*	26.533 *6*	15.7 *5*	E1
	86.55 *3*	1276 *25*	E1
105.314 *2*	18.769 *15*	2.52 *15*	M1+E2
	45.299 *5*	63.9 *8*	E1
	105.318 *3*	1000	E1
107.532 *15*	20.999 *23*	0.063 *AP*	E2
117.963 *5*	10.49 *4*	0.6 *2*	M1+E2
	31.43 *9*	0.87 *20*	M1+E2
	57.983 *5*	8.17 *22*	E1
146.064 *10*	86.0 *2*	0.6	M1+E2
	146.05 *3*	1.9 *4*	(E2)
266.601 *6*	120.6 *3*	2.74 *25*	E1
	148.64 *1*	105.5 *9*	M1+E2
	159.1 *1*	0.3 *1*	
	161.29 *1*	109.8 *11*	M1+E2
	180.08 *1*	297 *6*	M1+E2
	206.54 *2*	6.8 *5*	E1
268.582 *7*	150.63 *5*	1.19 *7*	(E2)
	163.28 *1*	176.9 *18*	M1+E2
	182.1 *1*	4.4 *2*	(M1)
	208.58 *5*	2.3 *5*	E1
	268.56 *1*	28.3 *19*	E1
286.944 *5*	181.69 *9*	16.8 *2*	E1
	200.411 *4*	9.16 *20*	E1
	226.95 *1*	5.91 *8*	M1
	286.96 *1*	12.62 *25*	M1+E2
321.293 *7*	175.29 *2*	1.77 *18*	(M1)
	203.37 *2*	1.15 *12*	
	216.02 *5*	5.4 *4*	
	234.78 *1*	1.32 *8*	
	261.25 *1*	1.58 *25*	(M1)
326.016 *8*	208.05 *5*	9.2 *5*	M1
	218.4 *1*	0.3 *2*	
	220.70 *5*	20.24 *20*	M1(+E2)
	239.45 *1*	9.03 *8*	M1(+E2)
	266.02 *8*	0.11 *1*	
350.314 *17*	232.33 *2*	0.69 *8*	(M1)
	242.80 *2*	0.62 *3*	E2(+M1)
	245.00 *9*	0.11 *6*	
	290.2 *1*	0.08 *3*	
367.512 *6*	80.6 *1*	0.6 *4*	(E1)
	99.02 *25*	3.46 *15*	M1
	262.27 *1*	210.6 *21*	M1(+E2)
	281.06 *1*	12.05 *15*	E2
	367.36 *1*	31 *5*	E1+M2
427.211 *5*	59.63	0.85 *15*	E2(+M1)
	101.16 *1*	6.4 *4*	M1+E2
	158.57 *5*	1.73 *9*	(M1)
	160.51 *10*	31.1 *6*	M1(+E2)
	309.21 *3*	0.19 *3*	
	321.83 *1*	7.2 *3*	M1+E2
	340.67 *1*	47.1 *9*	M1(+E2)
	367.36 *1*	59 *7*	E1
	427.18 *1*	1.09 *3*	E1
450.609 *7*	129.3 *1*	0.020 *4*	
	304.6 *5*	0.020 *3*	
	364.06 *1*	0.46 *8*	
	390.62 *1*	0.75 *15*	M1
	450.64 *2*	1.12 *9*	M1(+E2)
451.572 *9*	346.036 *25*	0.26 *4*	E1
	391.60 *1*	0.12 *5*	M1
	451.60 *2*	0.39 *9*	M1,E2
454.459 *4*	336.56 *1*	1.3 *1*	E1
	367.929 *1*	2.0 *2*	
	394.6 *5*	0.08 *5*	
	454.45 *1*	0.79 *8*	M1
488.678 *6*	61.49 *4*	1.14 *15*	M1+E2
	138.29 *7*	0.96 *9*	(M1)
	162.65 *2*	0.7 *AP*	[M1,E2]
	201.0 *10*	0.5 *3*	
	220.07 *5*	6.63 *19*	M1,E2
	222.0 *1*	0.8 *4*	
	342.58 *5*	0.31 *8*	
	370.73 *1*	9.07 *25*	M1+E2
	381.06 *3*	0.21 *2*	
	383.35 *1*	1.03 *15*	M1
	402.16 *1*	2.87 *18*	M1
	428.7 *1*	0.04 *2*	
	488.65 *15*	0.68 *12*	E1
559.319 *10*	132.0 *1*	0.3 *1*	
	237.5 *4*	0.11 *8*	
	290.2 *1*	0.08 *3*	
	499.24 *6*	0.037 *6*	
	559.32 *1*	5.4 *3*	M1(+E2)
592.060 *7*	141.5 *1*	0.16 *8*	(M1)
	271.0 *5*	0.08 *5*	
	305.11 *10*	0.12 *5*	(M1)
	323.53 *8*	0.9 *3*	
	325.44 *9*	0.18 *5*	
	445.98 *1*	0.39 *9*	

E(level)	Eγ	Iγ	Mult.
	486.88 *15*	0.96 *8*	E1
	505.52 *1*	1.81 *11*	E1+M2
	532.09 *5*	1.81 *25*	E2
	592.08 *1*	0.78 *8*	E0+E2,M1
614.791 *8*	509.7 *2*	0.010 *4*	
	554.78 *1*	0.79 *9*	M1(+E2)
	614.80 *1*	1.21 *8*	E2(+M1)
647.771 *5*	193.319 *4*	0.038 *7*	M1,E2
	379.14 *3*	0.28 *8*	
	501.70 *7*	0.46 *3*	M1+E2
	529.76 *6*	0.47 *8*	E1
	542.45 *3*	0.16 *8*	
	587.69 *4*	0.16 *3*	E0+E2,M1
	647.73 *1*	0.56 *5*	E2+M1
658.96 *5*	512.89 *9*	0.051 *8*	
	598.96 *6*	0.093 *11*	
	658.93 *15*	0.012 *3*	

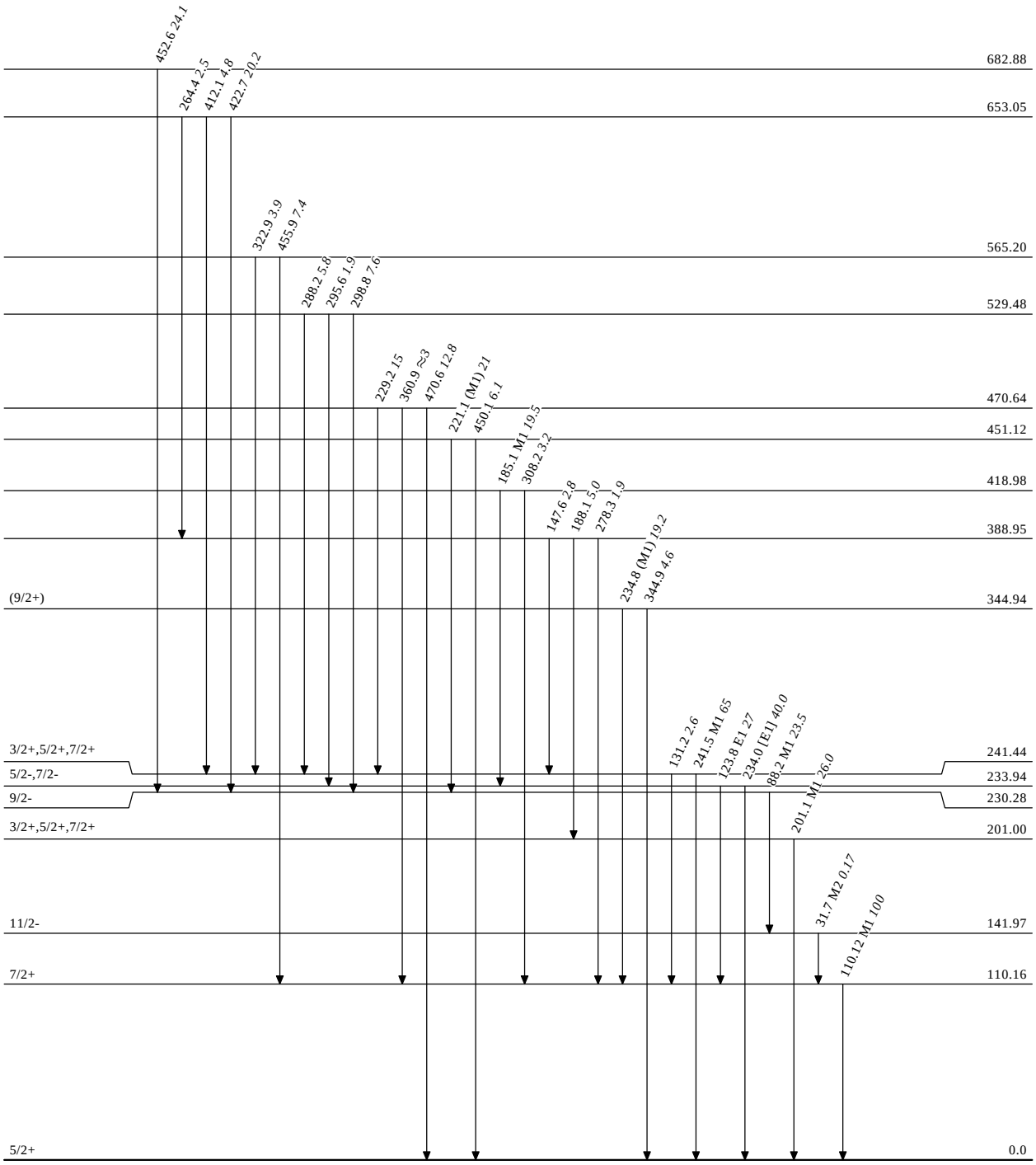

5/2- 658.96
5/2- 647.771
3/2- 614.791
3/2- 592.060
1/2- 559.319
5/2+ 488.678
5/2- 454.459
1/2- 451.572
3/2- 450.609
3/2+ 427.211
1/2+ 367.512
7/2+ 350.314
5/2+ 326.016
5/2- 321.293
3/2- 286.944
3/2+ 268.582
5/2+ 266.601
7/2- 146.064
7/2+ 117.963
9/2+ 107.532
3/2+ 105.314
5/2+ 86.529
5/2- 59.999
3/2- 0.0
512.89 0.051
598.96 0.093
658.93 0.012
193.319 M1,E2 0.038
379.14 0.28
501.70 M1+E2 0.46
509.7 0.010
554.78 M1(+E2) 0.79
614.80 E2(+M1) 1.21
141.5 (M1) 0.16
271.0 0.08
305.11 (M1) 0.12
132.0 0.3
237.5 0.11
290.2 0.08
61.49 M1+E2 1.14
138.29 (M1) 0.96
162.65 [M1,E2] ≈0.7
336.56 E1 1.3
367.929 2.0
394.6 0.08
346.036 E1 0.26
391.60 M1 0.12
451.60 M1,E2 0.39
129.3 0.020
304.6 0.020
364.06 0.46
59.63 E2(+M1) 0.85
101.16 M1+E2 6.4
158.57 (M1) 1.73
80.6 (E1) 0.6
99.02 M1 3.46
262.27 M1(+E2) 210.6
232.33 (M1) 0.69
242.80 E2+M1) 0.62
245.00 0.11
208.05 M1 9.2
218.4 0.3
220.70 M1(+E2) 20.24
175.29 (M1) 1.77
203.37 1.15
216.02 5.4
181.69 E1 16.8
200.411 E1 9.16
226.95 M1 5.91
150.63 (E2) 1.19
163.28 M1+E2 176.9
182.1 (M1) 4.4
120.6 E1 12.74
148.64 M1+E2 105.5
159.1 0.3
86.0 M1+E2 0.6
146.05 (E2) 1.9
10.49 M1+E2 0.6
31.43 M1+E2 0.87
57.983 E1 8.17

$^{155}_{64}Gd_{91}$


20.999 E2 ≈0.063
18.769 M1+E2 2.52
45.299 E1 63.9
105.318 E1 1000
26.533 E1 15.7
86.55 E1 1276
60.012 M1+E2 44.2
9/2+
107.532
3/2+
105.314
5/2+
86.529
5/2-
59.999
3/2-
0.0

$^{155}_{64}Gd_{91}$

E(level)	Eγ	Iγ	Mult.
0.0			
110.16 *6*	110.12 *7*	100	M1
141.97 *11*	31.7 *1*	0.17 *5*	M2
201.00 *9*	201.1 *1*	26.0 *10*	M1
230.28 *12*	88.2 *1*	23.5 *8*	M1
233.94 *8*	123.8 *1*	27 *1*	E1
	234.0 *1*	40.0 *18*	[E1]
241.44 *12*	131.2 *3*	2.6 *7*	
	241.5 *2*	65 *7*	M1
344.94 *18*	234.8 *2*	19.2 *18*	(M1)
	344.9 *3*	4.6 *16*	
388.95 *13*	147.6 *3*	2.8 *7*	
	188.1 *2*	5.0 *6*	
	278.3 *5*	1.9 *9*	
	388.9 *2*	8.7 *10*	
418.98 *12*	185.1 *1*	19.5 *7*	M1
	308.2 *3*	3.2 *7*	
451.12 *21*	221.1 *2*	21 *5*	(M1)
	450.1 *4*	6.1 *18*	
470.64 *17*	229.2 *3*	15 *4*	
	360.9 *6*	3 *AP*	
	470.6 *2*	12.8 *14*	
529.48 *14*	288.2 *2*	5.8 *7*	
	295.6 *5*	1.9 *7*	
	298.8 *2*	7.6 *9*	
	328.7 *2*	12.7 *15*	
565.20 *23*	322.9 *3*	3.9 *9*	
	455.9 *3*	7.4 *13*	
653.05 *14*	264.4 *4*	2.5 *8*	
	412.1 *3*	4.8 *9*	
	422.7 *1*	20.2 *13*	
682.88 *24*	452.6 *2*	24.1 *20*	


452.6 24.1
264.4 2.5
412.1 4.8
422.7 20.2
322.9 3.9
455.9 7.4
288.2 5.8
295.6 1.9
298.8 7.6
229.2 15
360.9 ≈3
470.6 12.8
221.1 (M1) 21
450.1 6.1
185.1 M1 19.5
308.2 3.2
147.6 2.8
188.1 5.0
278.3 1.9
234.8 (M1) 19.2
344.9 4.6
131.2 2.6
241.5 M1 65
123.8 E1 27
234.0 [E1] 40.0
88.2 M1 23.5
201.1 M1 26.0
31.7 M2 0.17
110.12 M1 100
682.88
653.05
565.20
529.48
470.64
451.12
418.98
388.95
(9/2+)
344.94
3/2+,5/2+,7/2+
241.44
5/2-,7/2-
233.94
9/2-
230.28
3/2+,5/2+,7/2+
201.00
11/2-
141.97
7/2+
110.16
5/2+
0.0

$^{155}_{67}Ho_{88}$

E(level)	Eγ	Iγ	Mult.
0.0			
83.3942 *15*	83.396 *2*	100	M1+E2
108.1552 *13*	108.160 *3*	100	E3
158.5885 *12*	50.434 *1*	100	M1+E2
180.9220 *12*	22.35 *2*		(M1)
	72.768 *1*	100	E2
184.2552 *11*	184.252 *2*	100	E1
186.0940 *22*	102.701 *2*	100 *14*	[M1]
	186.100 *6*	56 *17*	[E2]
261.7702 *11*	77.514 *1*	100 *3*	M1+E2
	178.374 *4*	59.5 *6*	E1
	261.771 *2*	77.5 *8*	E1
297.6825 *13*	116.760 *1*	53.6 *12*	E2+M1
	139.096 *2*	100 *22*	E2
307.74 *12*			
337.1613 *14*	39.480 *5*	1.2 *4*	[M1]
	156.240 *1*	100 *10*	E2
360.6307 *16*	98.863 *2*	100 *43*	
	174.554 *6*	1.7 *17*	
	176.367 *5*	22.4 *17*	(E2)
	277.238 *11*	17.2 *17*	
404.6 *9*			
479.98 *24*			
518.65 *23*			
530.5 *6*			
533.4939 *13*	235.796 *12*	1.33 *10*	
	271.721 *1*	22.3 *21*	E2+M1
	349.241 *2*	100 *10*	M1+E2
	352.574 *2*	10.6 *10*	E2,M1
	374.903 *2*	8.7 *9*	E2,M1
	425.335 *16*	8.7 *9*	E2
	533.494 *9*	18.1 *15*	
538.6351 *12*	354.381 *1*	4.6 *4*	E1
	357.714 *3*	3.4 *3*	(E1)
	380.045 *1*	6.1 *6*	E1
	430.478 *5*	6.1 *6*	E1
	538.634 *3*	100 *10*	E2
570.2626 *15*	386.011 *2*	89 *8*	E2
	411.679 *2*	100 *10*	M1
	462.103 *3*	4.6 *5*	(M1)
573.5845 *16*	311.812 *3*	0.58 *6*	
	392.663 *2*	26.7 *2*	M1+E2
	414.997 *3*	85 *9*	M1+E2
	465.427 *3*	100 *11*	M1+E2
583.9966 *13*	286.312 *2*	3.2 *3*	E1
	322.224 *2*	1.16 *9*	
	399.746 *3*	7.7 *9*	(E1)
	403.073 *1*	12.9 *12*	E1
	500.603 *7*	46.8 *16*	(E2)
	583.994 *4*	100 *10*	M1+E2
605.1005 *14*	34.849 *2*	0.17 *3*	M1+E2
	343.323 *3*	7.7 *8*	E2
	420.840 *3*	21.3 *23*	E2+M1
	424.161 *8*	0.52 *5*	
	446.506 *8*	0.52 *5*	
	496.942 *3*	100 *12*	M1+E2
607.6226 *16*	246.997 *2*	41 *4*	(E2)
	270.461 *4*	10.6 *9*	
	309.941 *2*	22 *2*	
	345.849 *3*	93 *9*	M1,E2
	423.366 *6*	100 *10*	M1+E2
	426.696 *9*	42 *5*	
	449.027 *9*	8.9 *9*	
628.8376 *15*	90.208 *2*	0.08 *4*	
	331.151 *10*	22.5 *24*	M1+E2
	444.564 *8*	0.20 *4*	
	447.915 *2*	100 *10*	M1+E2
	470.251 *4*	51 *7*	M1+E2
	520.679 *6*	1.02 *8*	
648.9734 *17*	64.968 *5*	2.8 *8*	
	110.328 *7*	1.0 *2*	
	311.812 *3*	6.0 *6*	
	351.283 *5*	5.8 *6*	
	387.207 *4*	9.2 *8*	
	462.883 *7*	16.8 *18*	
	464.61 *6*	4 *1*	
	565.578 *3*	100 *10*	E2
	648.962 *5*	54 *10*	E2+M1
658.0020 *14*	52.906 *1*	2.1 *4*	
	297.370 *3*	2.60 *25*	(E2)
	396.222 *3*	15.0 *15*	M1,E2
	473.737 *3*	11.0 *11*	
	477.072 *3*	100 *15*	E2+M1
	499.407 *4*	96 *11*	M1,E2
	549.81 *3*	0.50 *5*	
702.891 *6*	342.269 *10*	42 *8*	
	365.724 *7*	50 *8*	
	441.120 *19*	100 *8*	
705.9046 *16*	100.792 *2*	0.7 *3*	
	121.898 *10*	2.4 *7*	
	368.749 *2*	61 *7*	M1+E2
	408.229 *3*	100 *10*	

E(level)	Eγ	Iγ	Mult.
	444.139 *8*	5.2 *3*	M1+E2
	524.983 *4*	61 *6*	
730.4 *8*			
737.8591 *22*	79.866 *4*	3.5 *6*	M1,E2
	132.767 *5*	0.6 *3*	
	377.221 *6*	4.8 *3*	
	400.682 *4*	9.3 *10*	
	440.169 *13*	17.7 *22*	
	556.938 *6*	100 *10*	M1+E2
771.4 *4*			
785.2 *8*			
803.2 *5*			
818.8 *5*			
834.5 *8*			
877.2 *5*			
911.9706 *20*	253.556 *15*	0.13 *13*	
	304.367 *4*	0.25 *3*	
	378.487 *4*	1.9 *2*	
	828.569 *17*	2.8 *6*	
	911.966 *4*	100 *19*	M1
921.35 *22*			
957.1 *5*			
976.782 *8*	64.757 *12*	2.0 *10*	
	790.58 *5*	3.7 *13*	
	893.421 *9*	100 *20*	M1
	976.66 *19*	47 *13*	
988.1 *11*			
1016.0734 *20*	104.104 *2*	5.5 *11*	
	367.094 *4*	2.21 *19*	
	408.453 *6*	3.5 *4*	
	432.083 *6*	4.3 *9*	
	442.55 *4*	0.77 *10*	
	482.591 *6*	4.7 *5*	
	754.298 *8*	21 *9*	
	831.822 *9*	36 *8*	
	932.657 *11*	65 *13*	
	1016.100 *15*	100 *21*	
1031.6 *9*			
1051.9 *6*			
1064.9 *6*			
1080.0396 *16*	451.205 *3*	9.2 *10*	
	474.945 *3*	46 *5*	
	506.459 *4*	100 *10*	(E2)
	509.772 *6*	5.66 *24*	
	541.402 *5*	27 *3*	
	546.543 *2*	47 *5*	M1,E2
	921.442 *22*	17 *4*	
	971.85 *3*	5.5 *11*	
1088.0087 *18*	459.168 *5*	4.5 *6*	
	504.013 *6*	20.3 *20*	
	514.426 *5*	19.4 *24*	
	517.771 *11*	1.01 *10*	
	549.371 *3*	25 *3*	
	554.521 *11*	2.0 *3*	
	903.736 *19*	13 *3*	
	907.096 *18*	14 *3*	
	929.399 *11*	48 *9*	
	979.834 *21*	100 *20*	
1103.0438 *17*	474.212 *4*	14.3 *16*	M1+E2
	495.429 *12*	0.44 *7*	
	519.054 *4*	9.6 *10*	
	529.451 *14*	17.7 *18*	M1,E2
	532.748 *23*	0.74 *15*	
	564.409 *2*	35 *4*	
	569.566 *6*	60 *6*	
	805.32 *5*	1.25 *22*	
	841.38 *5*	1.8 *4*	
	918.803 *14*	11.8 *22*	
	922.113 *13*	15 *3*	
	944.433 *7*	60 *12*	
	994.870 *8*	100 *20*	
1108.2001 *18*	196.231 *10*	1.71 *12*	
	450.213 *12*	1.34 *12*	
	479.372 *4*	25 *3*	
	524.202 *2*	56 *6*	M1+E2
	534.617 *4*	55 *5*	
	537.99 *3*	13.9 *22*	
	569.566 *6*	100 *10*	M1+E2
	574.705 *6*	5.2 *5*	
	923.96 *6*	7.1 *16*	
	927.22 *3*	14 *3*	
	949.622 *21*	10.7 *21*	
	1108.204 *13*	89 *18*	
1135.815 *3*	397.962 *9*	1.22 *20*	
	486.841 *6*	18 *2*	
	506.980 *15*	6.3 *10*	
	551.814 *5*	11.2 *10*	
	562.227 *5*	8 *1*	
	597.167 *8*	26 *3*	
	838.162 *25*	22 *4*	
	951.60 *5*	10.6 *22*	
	954.865 *11*	88 *18*	

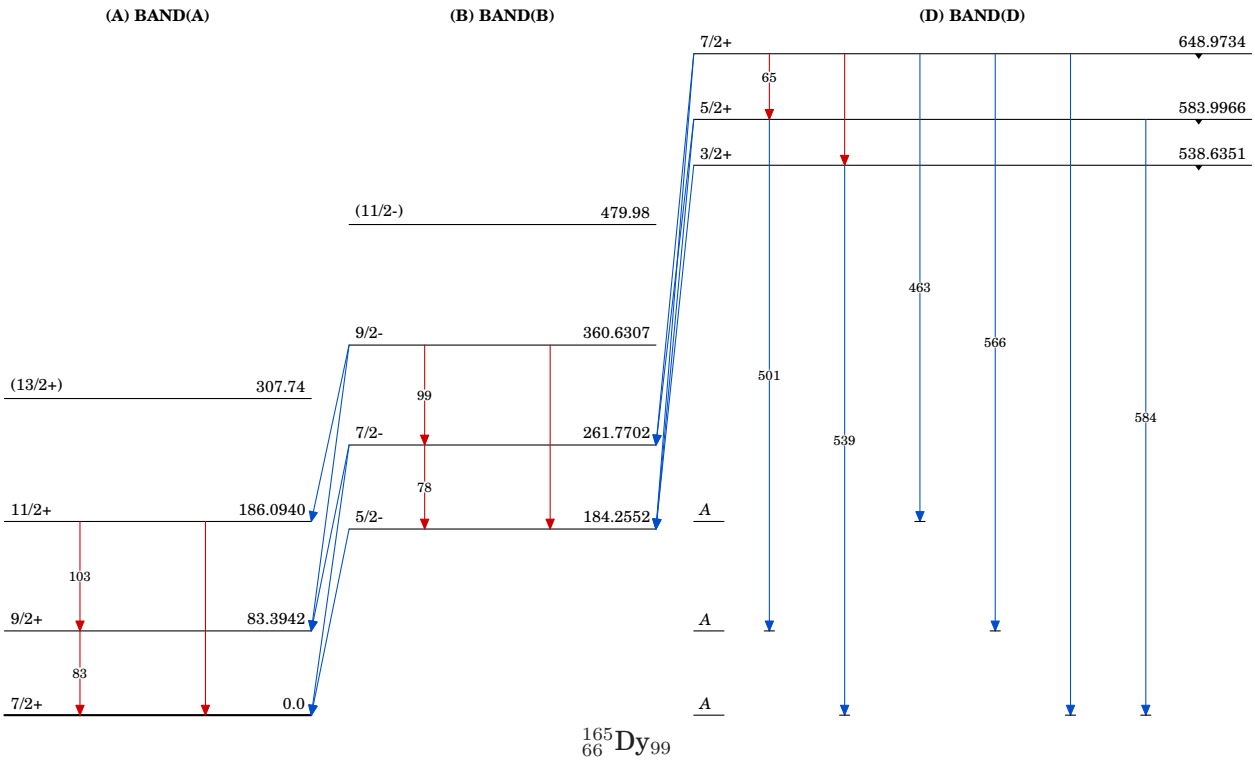
E(level)	Eγ	Iγ	Mult.
	977.18 *5*	100 *20*	
	1027.80 *15*	4.9 *12*	
1140.869 *3*	228.922 *21*	1.2 *5*	
	512.00 *5*	4.2 *7*	
	535.767 *3*	100 *9*	
	570.604 *6*	81 *8*	
	602.244 *8*	5.0 *9*	
	982.257 *24*	82 *16*	
	1032.82 *5*	65 *14*	
1158.1174 *21*	420.40 *5*	7 *6*	
	452.208 *4*	16.8 *18*	
	509.139 *7*	37 *8*	
	529.282 *4*	22.4 *24*	
	553.002 *10*	10.6 *9*	
	574.122 *3*	46 *4*	
	584.524 *17*	23 *3*	
	619.480 *10*	56 *12*	
	1074.75 *5*	33 *6*	
	1158.08 *3*	100 *21*	
1166.8949 *22*	508.899 *3*	100 *11*	(E1)
	537.99 *3*	13.4 *21*	
	561.794 *4*	6.2 *6*	
	593.282 *12*	3.3 *4*	
	596.626 *3*	73 *8*	
	1008.272 *17*	36 *7*	
1169.4 *5*			
1174.951 *3*	86.930 *6*	1.7 *3*	
	437.090 *6*	5.5 *3*	
	469.045 *4*	54 *6*	
	546.123 *6*	23.1 *24*	
	567.318 *13*	13.4 *24*	
	590.963 *14*	22 *2*	
	601.366 *6*	15 *3*	
	636.41 *4*	15 *3*	
	641.441 *15*	9 *2*	
	990.673 *25*	55 *10*	
	994.01 *3*	100 *21*	M1(+E2)
	1016.53 *8*	62 *21*	M1(+E2)
1197.1 *5*			
1218.3555 *24*	130.370 *20*	4.9 *24*	
	480.491 *5*	52 *6*	
	512.448 *5*	11.6 *11*	
	560.352 *7*	5.1 *3*	
	589.490 *13*	5.9 *5*	
	610.79 *4*	2.7 *5*	
	613.259 *3*	100 *19*	
	644.768 *11*	8.4 *16*	
	920.666 *11*	78 *16*	
1256.501 *4*	598.56 *3*	0.35 *6*	
	651.43 *3*	2.7 *10*	
	672.90 *19*	1.1 *3*	
	686.29 *4*	0.9 *2*	
	717.80 *4*	2.3 *5*	
	1072.212 *9*	100 *18*	
1283.0 *3*			
1309.301 *4*	704.29 *4*	2.7 *4*	
	1047.52 *3*	100 *21*	
	1125.032 *20*	60 *12*	
	1128.40 *10*	11 *4*	
	1150.55 *8*	6.7 *15*	
	1201.15 *11*	8.5 *23*	
1316.7 *4*			
1320.809 *7*	64.312 *6*	13 *3*	
	212.611 *12*	1.7 *17*	
	1136.43 *4*	100 *20*	
	1139.77 *8*	45 *10*	
	1161.83 *10*	95 *20*	
	1212.51 *21*	56 *13*	
1327.7 *7*			
1337.102 *4*	196.231 *10*	1.4 *1*	
	228.922 *21*	0.9 *4*	
	234.065 *6*	0.5 *1*	
	249.082 *6*	0.7 *1*	
	257.052 *22*	0.7 *1*	
	1178.46 *4*	100 *21*	
	1228.94 *5*	16 *3*	
1352.2 *4*			
1356.1 *7*			
1376.338 *3*	296.293 *3*	4.8 *4*	
	360.278 *6*	5.6 *9*	
	718.21 *7*	9.6 *22*	
	792.385 *20*	9.6 *17*	
	837.710 *22*	100 *22*	
	1192.18 *7*	31 *7*	
	1195.44 *17*	91 *22*	
	1217.72 *5*	65 *13*	
	1268.13 *3*	0.23 *5*	
1380.876 *5*	277.843 *5*	1.3 *3*	
	292.893 *10*	0.8 *3*	
	674.87 *9*	5.1 *10*	
	731.871 *23*	10.0 *18*	
	775.71 *4*	4.6 *10*	

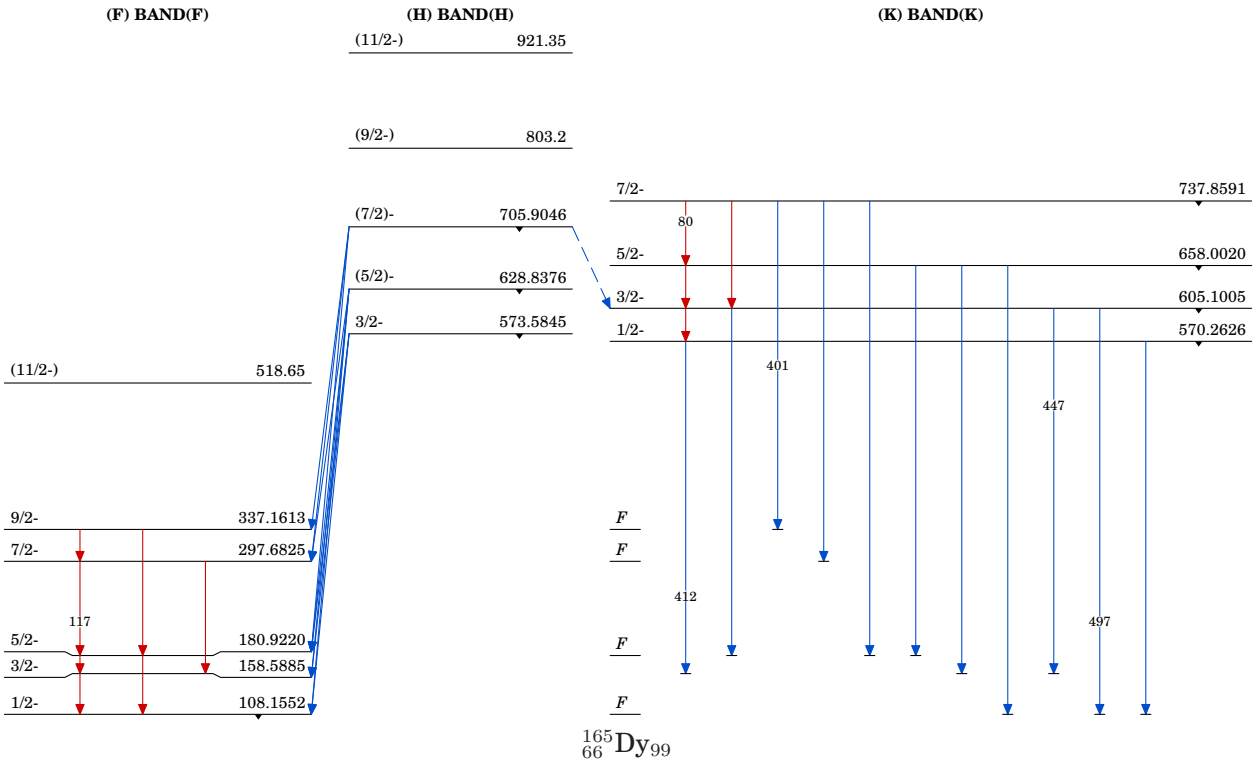
E(level)	Eγ	Iγ	Mult.
	807.34 *9*	6.4 *13*	
	842.14 *6*	7.7 *15*	
	847.44 *9*	4.6 *13*	
	1083.175 *15*	100 *21*	
	1199.97 *9*	17 *5*	
	1222.32 *6*	54 *10*	
1384.29 *24*			
1400.273 *4*	320.236 *3*	2.08 *14*	
	742.264 *15*	5.1 *10*	
	795.30 *6*	1.9 *4*	
	816.272 *14*	12.2 *23*	
	826.65 *3*	3.8 *7*	
	1219.23 *3*	35 *8*	
	1241.64 *4*	44 *8*	
	1292.03 *4*	100 *19*	
1416.3358 *19*	258.217 *6*	9 *3*	
	313.293 *2*	10.6 *9*	
	328.328 *2*	18.5 *18*	E1
	336.299 *4*	17.6 *18*	(E1)
	811.248 *11*	50 *11*	
	842.73 *3*	18 *4*	
	846.058 *7*	71 *15*	
	882.833 *13*	36 *7*	
	1257.68 *5*	100 *21*	
1440.469 *15*	131.145 *22*	2.2 *9*	
	791.34 *6*	12 *3*	
	856.526 *22*	34 *7*	
	1142.73 *8*	19 *4*	
	1256.10 *9*	100 *22*	
1444.721 *11*	277.74 *4*	1.1 *3*	
	303.89 *7*	1.8 *8*	
	860.61 *4*	21 *4*	
	871.09 *3*	4.4 *8*	
	906.066 *20*	77 *16*	
	1182.98 *5*	30 *6*	
	1260.531 *19*	100 *21*	
1453.6 *6*			
1456.383 *4*	320.549 *5*	7.4 *6*	
	368.352 *14*	4.4 *3*	
	798.398 *7*	100 *21*	
	827.57 *4*	12 *3*	
	848.90 *11*	9 *4*	
	851.38 *5*	13 *3*	
	872.398 *11*	50 *9*	
	882.833 *13*	36 *7*	
	886.09 *3*	29 *6*	
	1272.55 *24*	32 *6*	
	1275.42 *12*	36 *7*	
	1297.87 *4*	88 *18*	
1461.6 *10*			
1464.8474 *24*	127.719 *14*	0.40 *20*	
	155.547 *3*	0.40 *20*	
	208.339 *4*	3.7 *4*	
	306.733 *11*	3.9 *4*	
	323.994 *11*	0.20 *20*	
	329.041 *16*	1.02 *20*	
	356.659 *5*	11.0 *12*	
	376.832 *4*	4.0 *4*	
	384.813 *4*	2.24 *20*	
	835.987 *23*	8.6 *18*	
	880.839 *22*	8.0 *16*	
	891.319 *25*	30 *6*	
	926.187 *11*	67 *14*	
	931.351 *10*	100 *20*	M1+E2
	1203.19 *6*	32 *6*	
	1280.63 *4*	37 *10*	
1477.29 *24*			
1479.1313 *23*	376.088 *2*	22.9 *21*	
	391.120 *4*	9.6 *11*	
	850.288 *12*	41 *8*	
	905.527 *14*	100 *21*	
	945.82 *12*	13 *3*	
	1181.32 *6*	54 *11*	
	1320.45 *4*	75 *14*	
	1370.92 *3*	100 *21*	
1482.050 *5*	101.175 *1*	2.9 *5*	
	833.04 *4*	34 *7*	
	943.55 *10*	18 *5*	
	1121.57 *13*	39 *8*	
	1184.31 *3*	100 *19*	
	1220.32 *7*	47 *10*	
	1301.34 *10*	46 *10*	
	1323.44 *8*	71 *14*	
	1373.53 *17*	28 *8*	
1501.35 *24*			
1509.9 *4*			
1535.18 *21*			
1555.24 *23*			
1560.19 *22*			
1587.7 *3*			
1591.95 *22*			
1607.5 *3*			

E(level)	Eγ	Iγ	Mult.
1623.34 *22*			
1632.00 *22*			
1634.69 *23*			
1643.71 *18*			
1648.4 *4*			
1652.4 *5*			
1671.23 *22*			
1693.98 *25*			
1730.52 *25*			
1754.98 *23*			
1770.86 *22*			
1773.21 *17*	1234.9 *3*	23 *4*	
	1614.65 *30*	42 *5*	
	1664.80 *25*	100 *5*	
1795.94 *22*			
1813.67 *24*	1632.74 *30*	100 *15*	
	1705.5 *4*	56 *11*	
1814.57 *23*			
1830.54 *22*			
1834.64 *23*			
1872.76 *23*			
1875.89 *23*			
1885.80 *24*			
1890.73 *24*			
1895.97 *23*			
1915.55 *24*			
1943.91 *23*			
1962.91 *24*			
1969.08 *24*			
1988.30 *24*			
2007.63 *23*			
2027			
2041.92 *24*			
2063.6 *23*			
2065.90 *24*			
2088.18 *24*			
2107.17 *24*			
2112.74 *24*			
2160.48 *24*			
2178.64 *24*			
2187.19 *24*			
2190.99 *24*			
2208			
2230			
2247			
2271.2 *5*	2088.5		

E(level)	Eγ	Iγ	Mult.
	2113.4		
	2163.7		
2294			
2320			
2371			
2432			
2445			
2459			
2475.8 *6*	1904.2		
	2367.9		
2495			
2547.6 *5*	1972.9		
	2389.7		
	2439.6		
2576			
2596			
2610.1 *6*	2036.9		
	2501.5		
2657			
2705.7 *5*	2134.7		
	2167.9		
	2546.0		
2741			
2765.4 *4*	2192.2		
	2227.8		
	2583.1		
	2606.0		
	2657.6		
2783.8 *6*	2603.4		
	2674.6		
2793.2 *6*	2221.8		
	2634.6		
2815			
2834			
2852.7 *5*	2281.9		
	2314.6		
	2743.5		
2874.5 *6*	2304.2		
	2765.2		
2899			
2920			
2943.6 *6*	2370.7		
	2834.7		
2982.8 *5*	2412.3		
	2803.5		
	2821.6		

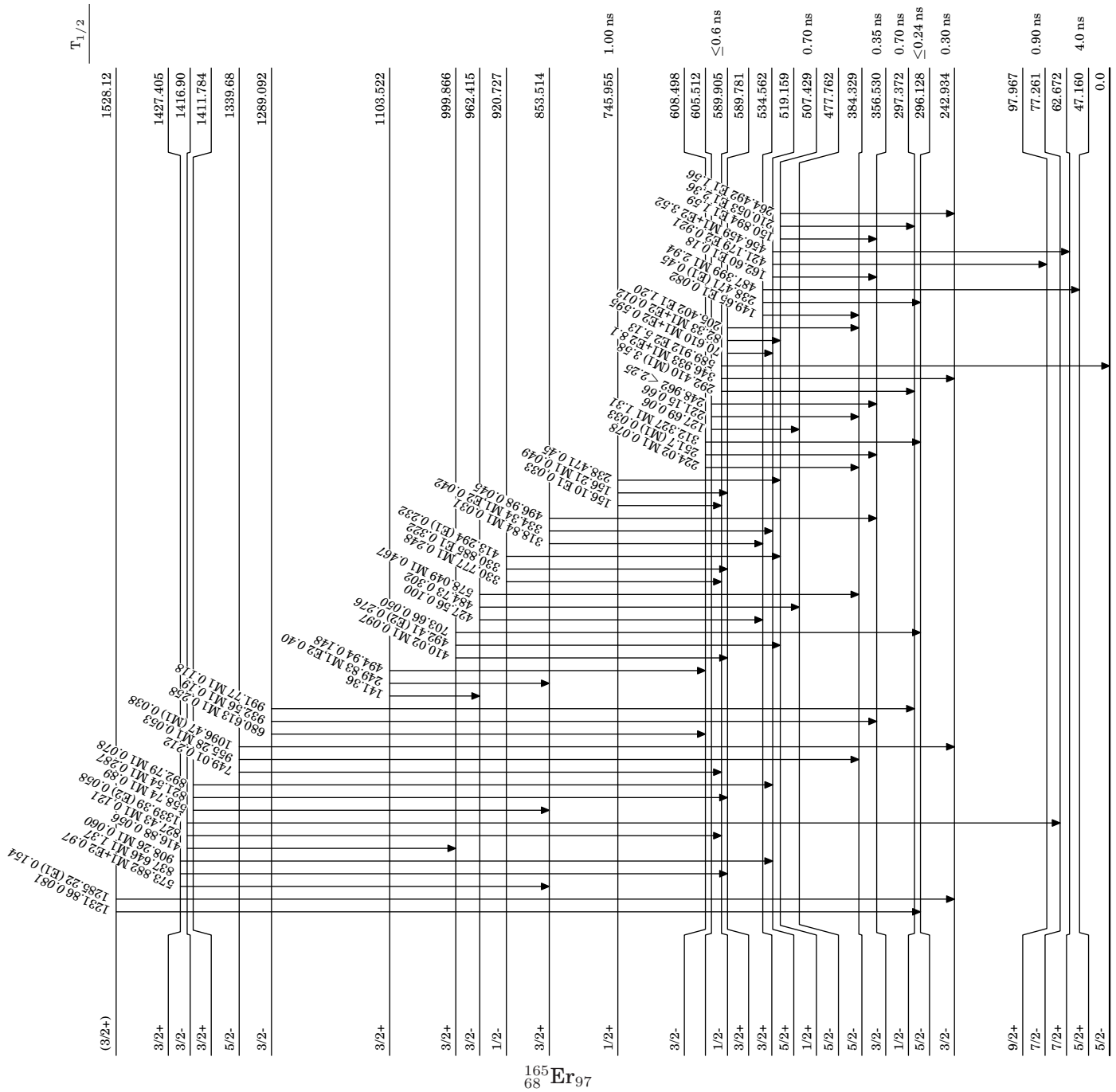
E(level)	Eγ	Iγ	Mult.
	2874.7		
3006			
3014.0 *5*	2475.8		
	2832.0		
	2855.7		
3051.8 *5*	2478.9		
	2871.2		
	2942.5		
3123.5 *6*	2551.9		
	3015.5		
3194.0 *6*	2655.9		
	3034.5		
3257.6 *5*	2684.3		
	3071.2		
	3098.3		
	3152.5		
3379.4 *6*	3198.0		
	3271.3		
3422.0 *5*	2884.6		
	3262.7		
	3313.0		
3443.5 *6*	2905.3		
	3261.7		
3455.4 *6*	3297.8		
	3346.0		
3473.8 *6*	2902.9		
	3314.6		
3539.5 *6*	2969.4		
	2999.5		
3587.4 *6*	3014.1		
	3406.1		
3650.2 *5*	3075.9		
	3115.4		
	3492.2		
3849.3 *6*	3275.1		
	3691.2		
3979.1 *6*	3406.0		
	3820.0		


(A) BAND(A)
(B) BAND(B)
(D) BAND(D)
7/2+ 648.9734
5/2+ 583.9966
3/2+ 538.6351
(11/2-) 479.98
9/2- 360.6307
(13/2+) 307.74
7/2- 261.7702
11/2+ 186.0940
5/2- 184.2552
9/2+ 83.3942
7/2+ 0.0
65
99
78
103
83
501
539
463
566
584
A
A
A
$^{165}_{66}Dy_{99}$


(F) BAND(F)
(H) BAND(H)
(K) BAND(K)
(11/2-) 921.35
(9/2-) 803.2
(7/2)- 705.9046
(5/2)- 628.8376
3/2- 573.5845
(11/2-) 518.65
9/2- 337.1613
7/2- 297.6825
5/2- 180.9220
3/2- 158.5885
1/2- 108.1552
7/2- 737.8591
5/2- 658.0020
3/2- 605.1005
1/2- 570.2626
80
401
447
117
412
497
F
F
F
F
$^{165}_{66}Dy_{99}$

E(level)	Eγ	Iγ	Mult.
0.0			
47.160 *4*	47.155 *6*	47.5 *12*	E1(+M2)
62.672 *4*	15.512 *10*	0.05 *AP*	M1+E2
	62.676 *5*	1.44 *3*	E1
77.261 *4*	14.56 *2*	0.26	(E1)
	30.106 *8*	0.25	E1
	77.253 *5*	2.05 *5*	M1+E2
97.967 *9*	20.71 *2*	0.08	(E1)
	35.280 *18*	0.06	M1+E2
	50.77 *2*	0.003	E2
175.82 *3*	98.60 *5*	0.013	(M1+E2)
	175.86 *7*	0.063 *7*	(E2)
242.934 *4*	165.659 *15*	0.44 *6*	E2
	195.773 *7*	1.62 *4*	E1
	242.917 *7*	100.0 *20*	M1
296.128 *4*	53.182 *15*	1.60 *12*	M1+E2
	120.34 *4*	0.015	
	218.859 *6*	9.4 *5*	M1+E2
	248.962 *7*	2.25 *6*	E1
	296.119 *9*	10.92 *24*	M1+E2
297.372 *4*	54.415 *11*	20.3 *5*	M1+E2
	297.369 *6*	35.8 *7*	E2
356.530 *4*	59.129 *22*	0.164 *13*	M1+E2
	60.399 *4*	2.00 *4*	M1+E2
	113.599 *4*	4.40 *9*	M1+E2
	279.264 *7*	1.69 *5*	E2
	309.4 *3*	0.22	(E1)
	356.519 *12*	7.75 *23*	M1+E2
372.713 *14*	76.56 *2*	0.005	M1+E2
	129.82 *4*	0.02	
	372.8 *4*	0.05	
384.329 *6*	11.60 *2*		M1
	27.879 *15*	0.007	M1+E2
	86.93 *1*	0.10	E2
	88.205 *15*	0.133 *14*	M1+E2
	141.36 *7*	0.083 *13*	M1+E2
	286.30 *15*	0.025	
	307.067 *11*	0.446 *12*	M1
	384.53 *4*	0.43 *5*	M1+E2
477.762 *8*	181.61 *4*	0.049 *5*	(M1)
	234.789 *22*	0.183 *7*	M1+E2
	400.520 *11*	0.393 *9*	
	415.12 *3*	0.171 *8*	
	430.594 *21*	0.79 *4*	E1
	477.791 *23*	1.13 *4*	M1+E2
507.429 *5*	150.894 *5*	1.59 *4*	E1
	210.053 *7*	2.36 *5*	E1
	264.492 *7*	1.56 *4*	E1
	460.263 *16*	11.6 *4*	E2
519.159 *6*	162.60 *3*	0.18 *4*	E1
	421.179 *10*	0.921 *20*	E2
	456.459 *15*	3.52 *16*	M1+E2
	471.979 *10*	0.994 *23*	M1+E2
534.562 *9*	149.65 *6*	0.082 *15*	E1
	238.471 *18*	0.45 *4*	(E1)
	487.399 *10*	2.94 *6*	M1
	534.72 *7*	0.094 *10*	(E1)
589.781 *5*	70.610 *5*	0.595 *17*	M1+E2
	82.33 *1*	0.012	M1+E2
	205.402 *11*	1.20 *3*	E1
	233.280 *13*	0.290 *9*	E1
	346.825 *11*	0.62 *2*	E1
	527.106 *12*	2.66 *6*	E2
	542.622 *11*	4.04 *21*	M1+E2
589.905 *7*	292.410 *14*	3.58 *11*	(M1)
	346.933 *11*	8.1 *3*	M1+E2
	589.912 *15*	5.13 *22*	E2
605.512 *8*	127.69 *4*	0.06	
	221.15 *5*	0.66	
	248.962 *7*	2.25 *LT*	
	362.3 *2*		
	605.93 *3*	0.46 *3*	
608.498 *7*	224.02 *8*	0.078 *15*	M1
	251.7 *3*	0.033	(M1)
	312.327 *12*	1.31 *7*	M1
	365.577 *8*	1.38 *4*	M1+E2
	531.243 *26*	0.372 *13*	E2
	608.527 *16*	1.27 *4*	E2
745.955 *8*	156.10 *3*	0.033 *16*	E1
	156.21 *3*	0.049 *16*	M1
	238.471 *18*	0.45 *4*	
	389.404 *14*	7.94 *18*	E1
	448.580 *14*	4.59 *15*	E1
	698.843 *16*	3.62 *13*	E2
853.514 *8*	318.84 *7*	0.031 *7*	M1
	334.34 *10*	0.042 *6*	M1,E2
	496.98 *13*	0.045 *15*	
	557.38 *4*	0.52 *6*	
	610.616 *17*	1.35 *4*	(E1)
	790.873 *18*	1.29 *3*	E2
	806.372 *17*	26.8 *9*	M1
	853.568 *22*	0.454 *19*	

E(level)	Eγ	Iγ	Mult.
920.727 *7*	330.777 *10*	0.248 *14*	M1
	330.885 *10*	0.322 *14*	E1
	413.294 *23*	0.232 *18*	(E1)
	442.980 *16*	2.06 *8*	E2
	537.17 *3*	0.206 *20*	E2
	564.183 *17*	6.5 *4*	M1
	623.39 *3*	0.549 *17*	M1
	677.85 *3*	0.417 *16*	M1
962.415 *11*	427.56 *12*	0.100 *6*	
	484.73 *3*	0.302 *17*	
	578.049 *16*	0.467 *12*	M1
	605.93 *3*	0.46 *3*	E2
	665.067 *20*	1.06 *3*	M1
	719.58 *8*	0.049 *6*	
999.866 *20*	410.02 *7*	0.097 *10*	M1
	492.41 *3*	0.276 *19*	(E2)
	703.66 *19*	0.050 *7*	
	937.39 *10*	0.054 *6*	(E2)
	952.71 *3*	0.39 *3*	M1
1103.522 *10*	141.36 *7*		
	249.83 *4*	0.40 *4*	M1,E2
	494.94 *5*	0.148 *8*	
	513.627 *14*	0.23	E1
	513.735 *14*	0.68 *5*	M1
	570.4 *8*	0.023 *6*	
	595.95 *13*	0.066 *20*	
	719.58 *8*	0.049 *6*	
	747.00 *6*	0.50 *3*	
1289.092 *15*	680.613 *19*	0.258 *8*	M1
	932.56 *4*	0.19 *3*	M1
	991.77 *6*	0.118 *9*	M1
	1046.07 *7*	0.217 *10*	M1
	1289.04 *3*	0.293 *7*	M1
1339.68 *4*	749.01 *13*	0.212 *20*	
	955.28 *13*	0.053 *6*	M1
	1096.47 *7*	0.038 *4*	(M1)
	1262.09 *9*	0.035 *8*	M1
	1277.79 *6*	0.041 *11*	
	1339.39 *6*	0.058 *10*	(M1)
1411.784 *20*	558.74 *3*	0.89 *4*	M1
	821.54 *3*	0.287 *19*	M1
	892.79 *7*	0.078 *10*	M1
1416.90 *4*	416.88 *10*	0.056 *7*	
	827.43 *7*	0.121 *14*	M1
	1339.39 *6*	0.058 *10*	(E2)
	1416.80 *10*	0.090 *4*	E2
1427.405 *9*	573.882 *12*	0.97 *4*	M1+E2
	837.646 *23*	1.37 *4*	M1
	908.26 *11*	0.060 *15*	M1
	920.24 *8*	0.114 *10*	E2
	949.78 *7*	0.164 *6*	
	1043.05 *4*	0.218 *6*	E1
	1070.80 *12*	0.033 *5*	
	1131.26 *3*	4.86 *22*	E1
	1184.45 *3*	8.3 *4*	E1
	1364.75 *3*	0.184 *5*	E2
	1380.21 *3*	1.09 *7*	M1
	1427.40 *4*	2.27 *15*	E1
1528.12 *6*	1231.86 *11*	0.081 *7*	
	1285.22 *6*	0.154 *6*	(E1)


T1/2
1528.12
1427.405
1416.90
1411.784
1339.68
1289.092
1103.522
999.866
962.415
920.727
853.514
745.955
608.498
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589.781
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519.159
507.429
477.762
384.329
356.530
297.372
296.128
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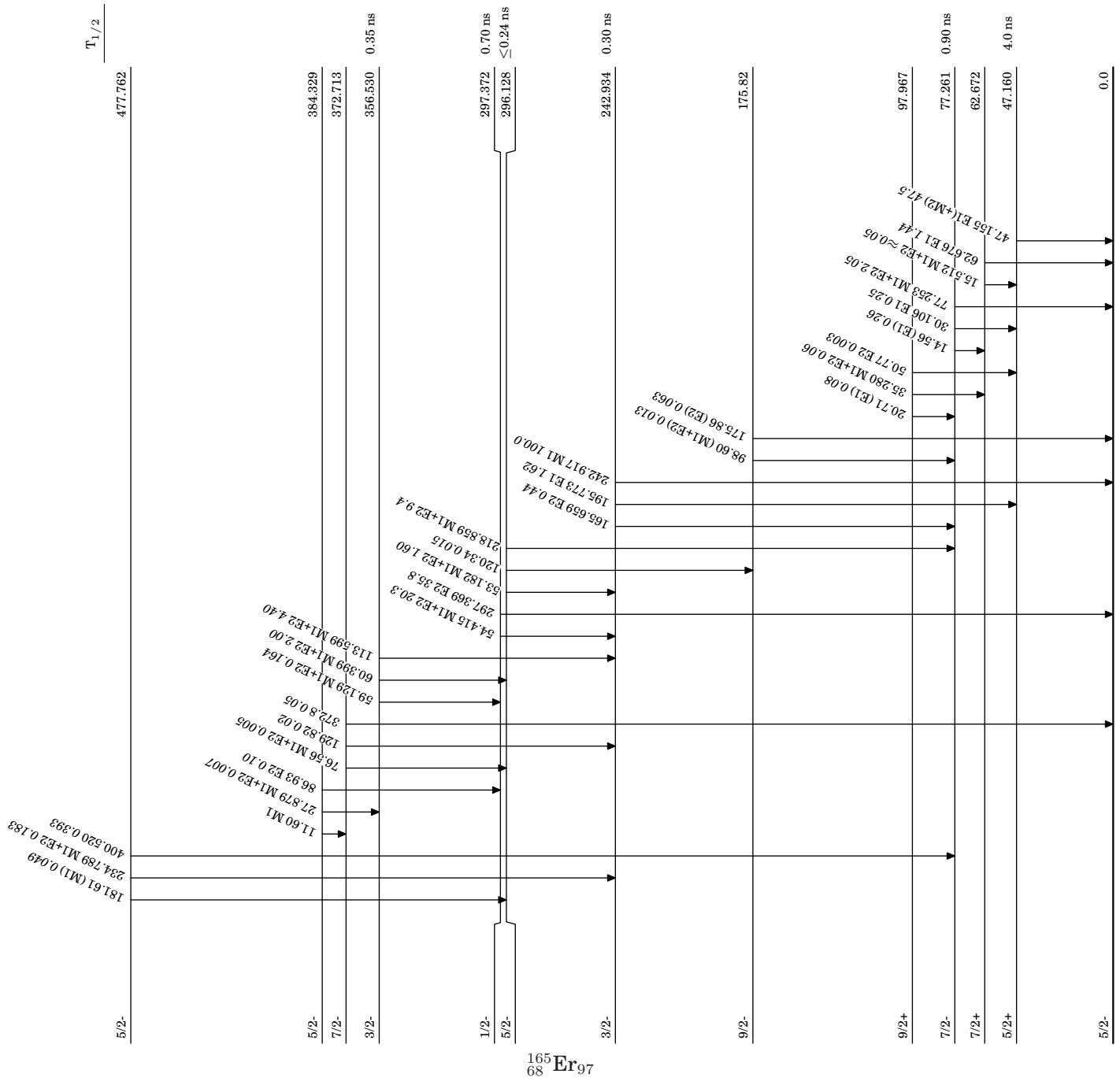
97.967
77.261
62.672
47.160
0.0
1.00 ns
≤0.6 ns
0.70 ns
0.35 ns
0.70 ns
≤0.24 ns
0.30 ns
0.90 ns
4.0 ns
(3/2+)
3/2+
3/2-
3/2+
5/2-
3/2-
3/2+
3/2+
3/2-
1/2-
3/2+
1/2+
3/2-
1/2-
3/2+
3/2+
5/2+
1/2+
5/2-
5/2-
3/2-
1/2-
5/2-
3/2-
9/2+
7/2-
7/2+
5/2+
5/2-
1231.86 0.081
1288.22 (E1) 0.154
573.882 M1+E2 0.97
837.646 M1+E2 1.37
908.26 M1 0.060
416.88 0.056
1427.43 M1 0.060
1339.39 (E2) 0.121
538.74 M1 0.89
821.54 M1 0.287
892.79 M1 0.078
749.01 0.212
965.28 M1 0.053
1096.47 (M1) 0.038
680.613 M1 0.258
932.36 M1 0.19
991.77 M1 0.118
141.36
249.83 M1+E2 0.40
494.94 0.148
410.02 M1 0.097
499.41 (E2) 0.276
703.66 0.050
427.56 0.100
484.73 0.302
578.049 M1 0.467
330.771 M1 0.248
413.294 (E1) 0.232
318.84 M1 0.031
334.34 M1+E2 0.042
496.98 0.045
156.10 E1 0.033
156.21 M1 0.049
238.471 0.45
294.02 M1 0.078
251.7 (M1) 0.033
312.327 M1 1.31
127.69 0.06
221.15 0.06
248.962 <2.25
392.410 (M1) 3.55
346.933 M1+E2 8.1
589.912 E2 5.13
70.610 M1+E2 0.595
82.33 M1+E2 0.012
205.402 E1 1.20
149.65 E1 0.082
238.471 (E1) 0.45
487.399 M1 2.94
162.60 E1 0.18
421.179 E2 0.921
466.459 M1+E2 3.52
150.894 E1 2.36
210.053 E1 1.56
264.492 E1 1.66

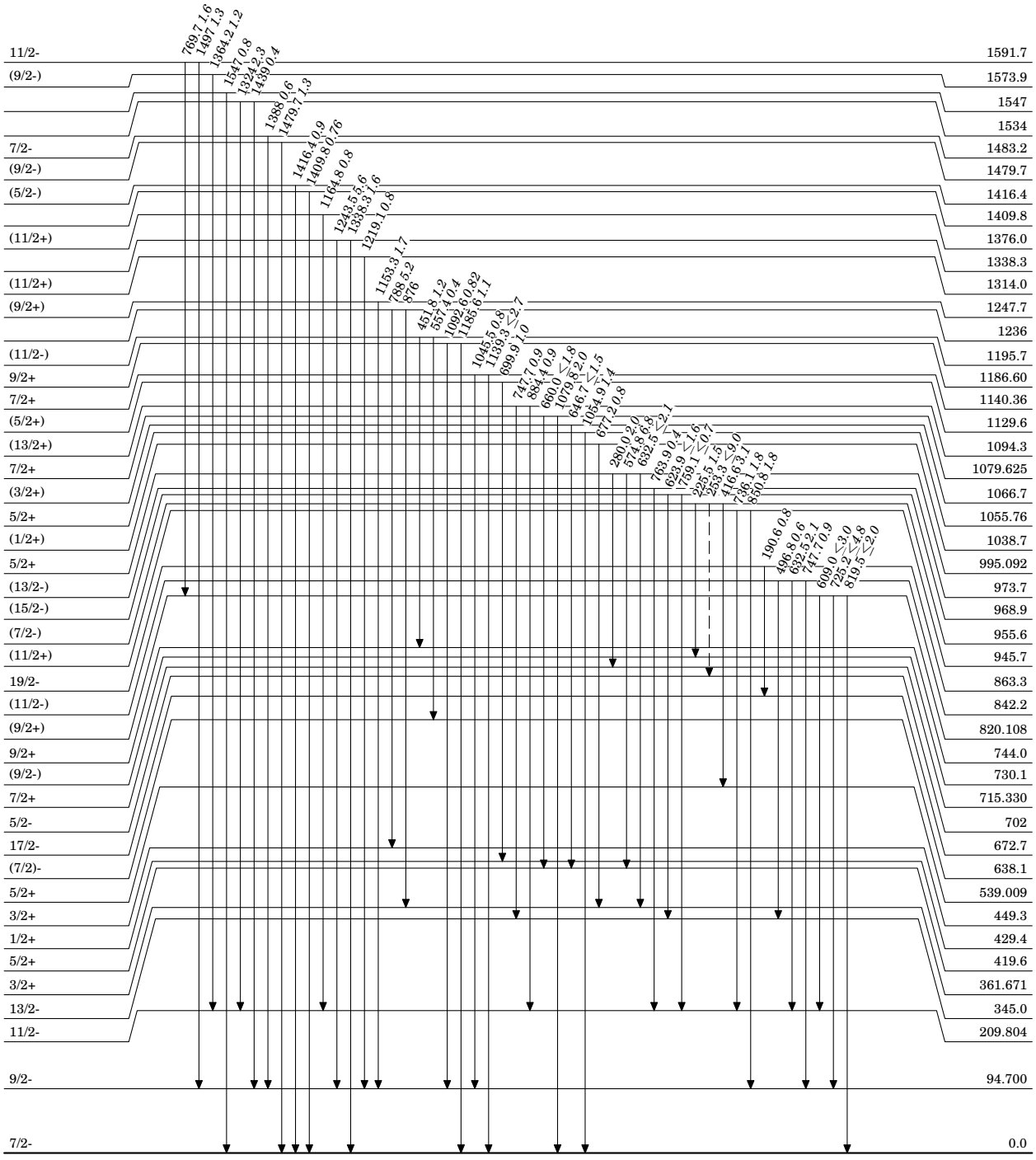
$^{165}_{68}Er_{97}$


T1/2
477.762
384.329
372.713
356.530
297.372
296.128
242.934
175.82
97.967
77.261
62.672
47.160
0.0
0.35 ns
0.70 ns
≤0.24 ns
0.30 ns
0.90 ns
4.0 ns
5/2-
5/2-
7/2-
3/2-
1/2-
5/2-
3/2-
9/2-
9/2+
7/2-
7/2+
5/2+
5/2-
181.61 (M1) 0.049
234.189 M1+E2 0.183
400.520 0.393
11.60 M1
27.879 M1+E2 0.007
86.93 E2 0.10
76.56 M1+E2 0.005
129.82 0.02
372.8 0.05
59.129 M1+E2 0.164
60.399 M1+E2 2.00
113.599 M1+E2 4.40
54.415 M1+E2 20.3
297.369 E2 35.8
53.182 M1+E2 1.60
120.34 0.015
218.859 M1+E2 9.4
165.659 E2 0.44
195.773 E1 1.62
242.917 M1 100.0
98.60 (M1+E2) 0.013
175.86 (E2) 0.063
20.71 (E1) 0.08
35.280 M1+E2 0.06
50.77 E2 0.003
14.56 (E1) 0.26
30.106 E1 0.25
77.253 M1+E2 2.05
15.512 M1+E2 ≈0.05
62.676 E1 1.44
47.155 E1(+M2) 47.5

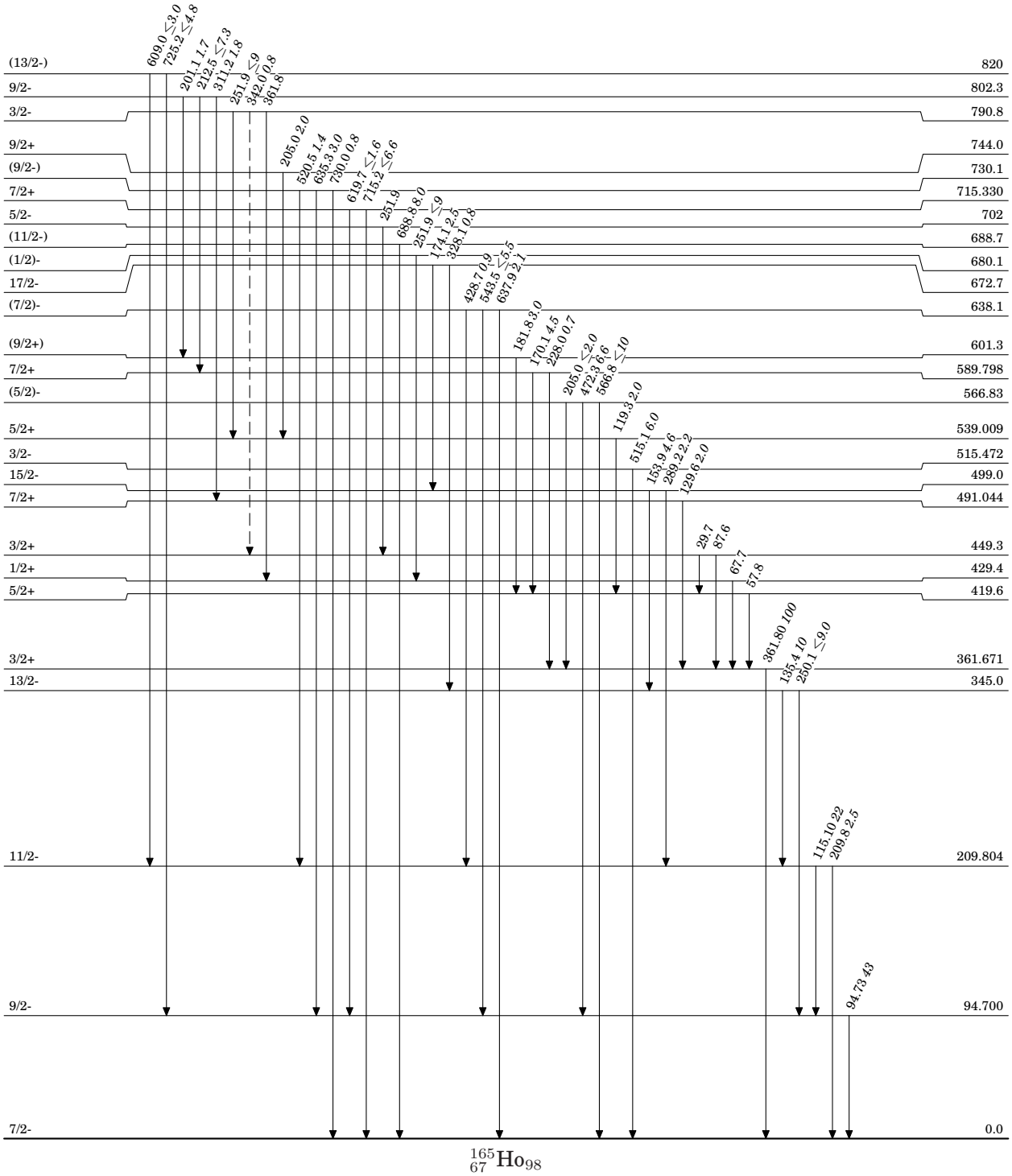
$^{165}_{68}Er_{97}$

E(level)	Eγ	Iγ	Mult.
0.0			
94.700 *3*	94.73 *10*	43 *3*	
209.804 *8*	115.10 *10*	22 *2*	
	209.8 *2*	2.5 *4*	
345.0 *1*	135.4 *3*	10 *1*	
	250.1	9.0 *LE*	
361.671 *8*	361.80 *10*	100 *1*	
419.6	57.8		
429.4	67.7		
449.3	29.7		
	87.6		
491.044 *11*	129.6 *3*	2.0 *6*	
499.0 *2*	153.9 *2*	4.6 *5*	
	289.2 *3*	2.2 *5*	
515.472 *9*	515.1 *2*	6.0 *2*	
539.009 *10*	119.3 *3*	2.0 *6*	
566.83 *9*	205.0 *3*	2.0 *LE*	
	472.3 *3*	6.6 *6*	
	566.8 *2*	10 *LE*	
589.798 *14*	170.1 *2*	4.5 *4*	
	228.0 *3*	0.7 *4*	
601.3 *2*	181.8 *2*	3.0 *4*	
638.1 *2*	428.7 *5*	0.9 *5*	
	543.5 *4*	5.5 *LE*	
	637.9 *6*	2.1 *4*	
672.7 *2*	174.1 *2*	2.5 *5*	
	328.1 *5*	0.8 *4*	
680.1	251.9	9 *LE*	
688.7 *2*	688.8 *2*	8.0 *6*	
702 *3*	251.9		
715.330 *9*	619.7 *8*	1.6 *LE*	
	715.2 *2*	6.6 *LE*	
730.1 *3*	520.5 *4*	1.4 *3*	
	635.3 *5*	3.0 *4*	
	730.0 *6*	0.8 *4*	
744.0 *3*	205.0 *3*	2.0 *4*	
790.8	251.9	9 *LE*	
	342.0	0.8 *4*	
	361.8		
802.3 *2*	201.1 *3*	1.7 *4*	
	212.5 *2*	7.3 *LE*	
	311.2 *3*	1.8 *4*	
820 *1*	609.0 *8*	3.0 *LE*	
	725.2 *2*	4.8 *LE*	
820.108 *12*	609.0 *8*	3.0 *LE*	
	725.2 *2*	4.8 *LE*	
	819.5 *5*	2.0 *LE*	
842.2 *3*	496.8 *5*	0.6 *4*	
	632.5 *6*	2.1 *4*	
	747.7 *6*	0.9 *3*	
863.3 *6*	190.6 *5*	0.8 *4*	
945.7 *8*	736.1 *6*	1.8 *4*	
	850.8 *5*	1.8 *4*	
955.6 *2*	225.5 *3*	1.5 *5*	
	253.3	9.0 *LE*	
	416.6 *3*	3.1 *9*	
	537.2	1.0 *3*	
968.9 *3*	623.9 *6*	1.6 *LE*	
	759.1 *5*	0.7 *LE*	
973.7 *5*	763.9 *5*	0.4 *3*	
995.092 *8*	280.0 *3*	2.0 *5*	
	574.8	6.8	
	632.5 *6*	2.1 *LE*	
1038.7	677.2 *6*	0.8 *4*	
1055.76 *18*	1054.9 *6*	1.4 *4*	
1066.7	646.7 *6*	1.5 *LE*	
1079.625 *13*	660.0 *8*	1.8 *LE*	
	1079.8 *6*	2.0 *5*	
1094.3 *5*	747.7 *6*	0.9 *3*	
	884.4 *6*	0.9 *3*	
1129.6	699.9 *5*	1.0 *6*	
1140.36 *4*	1045.5 *8*	0.8	
	1139.3 *8*	2.7 *LE*	
1186.60 *5*	1092.6 *8*	0.82	
	1185.6 *10*	1.1 *4*	
1195.7 *4*	451.8 *5*	1.2 *5*	
	557.4 *6*	0.4 *3*	
1236	788 *1*	5.2	
	876		
1247.7 *6*	1153.3 *6*	1.7 *4*	
1314.0 *7*	1219.1 *10*	0.8 *4*	
1338.3 *20*	1243.5 *20*	5.6	
	1338.3 *20*	1.6	
1376.0 *15*	1164.8 *10*	0.8 *3*	
1409.8 *8*	1409.8 *8*	0.76 *15*	
1416.4 *10*	1416.4 *10*	0.9 *3*	
1479.7 *10*	1479.7 *10*	1.3 *4*	
1483.2 *10*	1388	0.6	
1534	1324 *2*	2.3	
	1439 *2*	0.4	
1547 *2*	1547 *2*	0.8	
1573.9 *10*	1364.2 *10*	1.2 *3*	

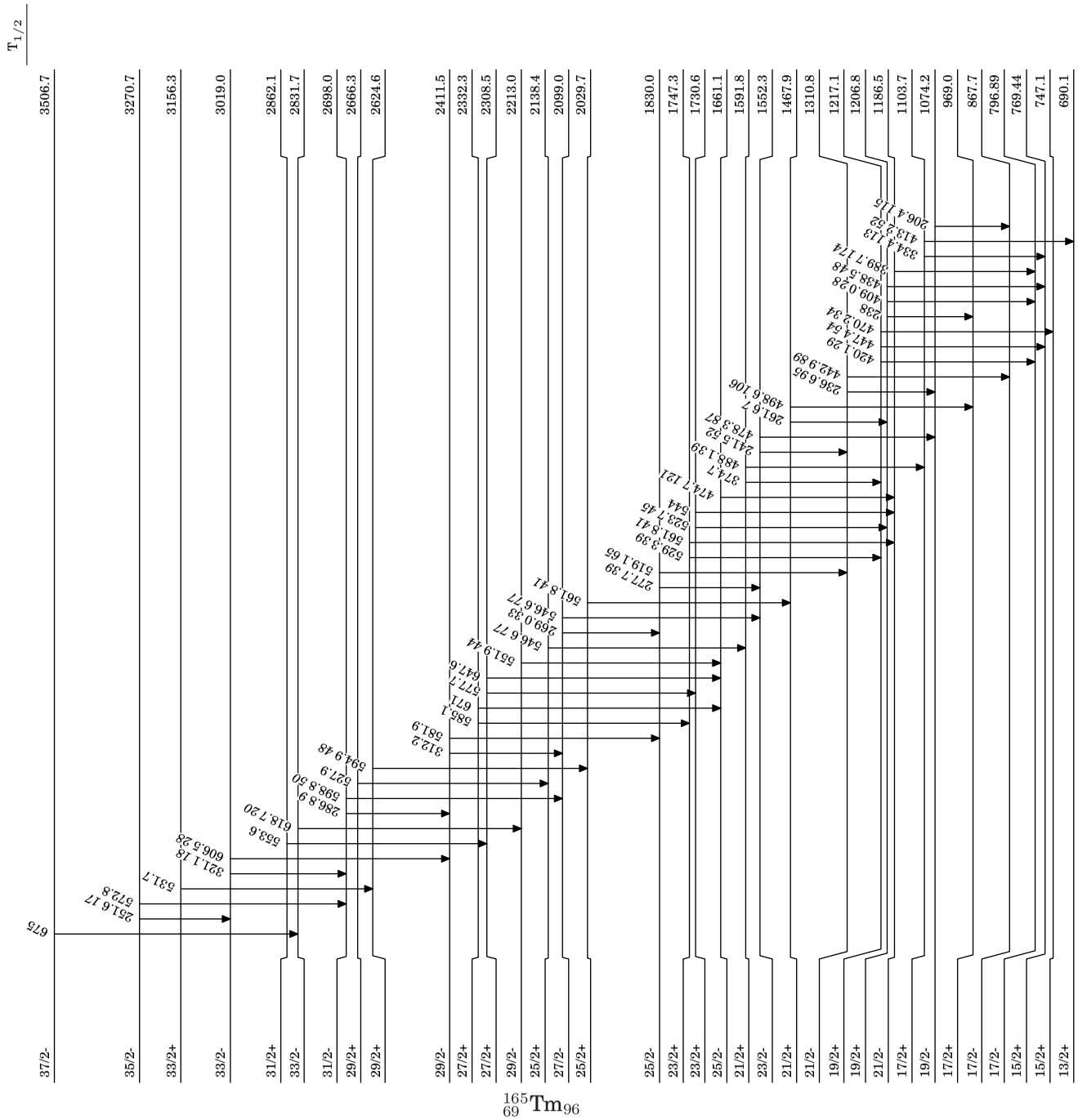
E(level)	Eγ	Iγ	Mult.
1591.7 *10*	769.7	1.6	
	1497	1.3	

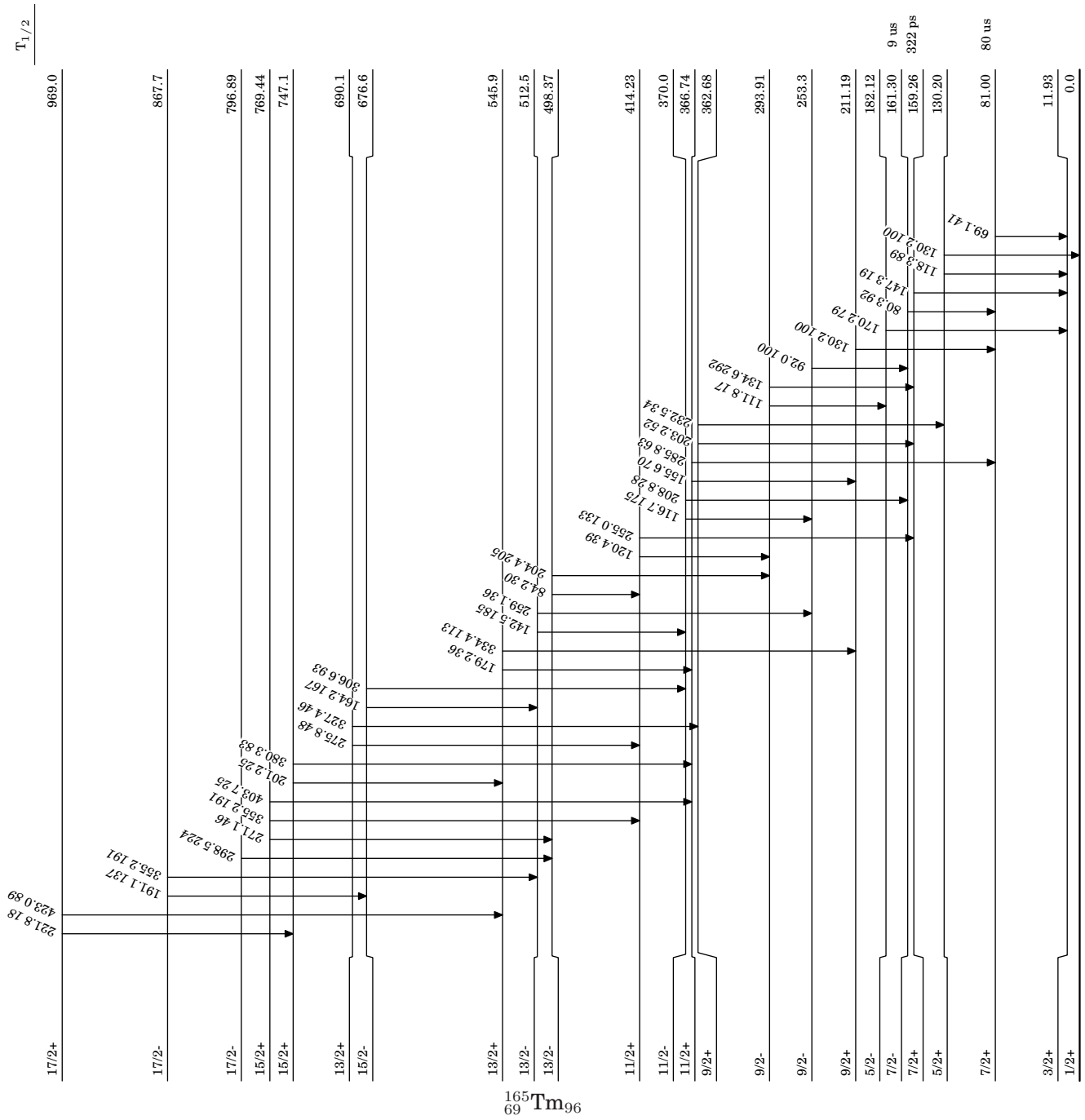

11/2- 1591.7
(9/2-) 1573.9
1547
1534
7/2- 1483.2
(9/2-) 1479.7
(5/2-) 1416.4
1409.8
(11/2+) 1376.0
1338.3
(11/2+) 1314.0
(9/2+) 1247.7
1236
(11/2-) 1195.7
9/2+ 1186.60
7/2+ 1140.36
(5/2+) 1129.6
(13/2+) 1094.3
7/2+ 1079.625
(3/2+) 1066.7
5/2+ 1055.76
(1/2+) 1038.7
5/2+ 995.092
(13/2-) 973.7
(15/2-) 968.9
(7/2-) 955.6
(11/2+) 945.7
19/2- 863.3
(11/2-) 842.2
(9/2+) 820.108
9/2+ 744.0
(9/2-) 730.1
7/2+ 715.330
5/2- 702
17/2- 672.7
(7/2)- 638.1
5/2+ 539.009
3/2+ 449.3
1/2+ 429.4
5/2+ 419.6
3/2+ 361.671
13/2- 345.0
11/2- 209.804
9/2- 94.700
7/2- 0.0
769.7 1.6
1497.1 1.3
1364.2 1.2
1547.0 0.8
1324.2 2.3
1435 0.4
1388 0.6
1479.7 1.3
1416.4 0.9
1409.8 0.76
1164.8 0.8
1243.5 5.6
1338.3 1.6
1219.1 0.8
1153.3 1.7
788.5 2
876
451.8 1.2
557.4 0.4
1092.6 0.82
1185.6 1.1
1045.5 0.8
1139.3 ≤2.7
699.9 1.0
747.7 0.9
884.4 0.9
660.0 ≤1.8
1079.8 2.0
646.7 ≤1.5
1054.9 1.4
677.2 0.8
280.0 2.0
574.8 6.8
632.5 ≤2.1
763.9 0.4
623.9 ≤1.6
759.1 ≤0.7
225.5 1.5
253.3 ≤9.0
416.6 3.1
736.1 1.8
850.8 1.8
190.6 0.8
496.8 0.6
632.5 2.1
747.7 0.9
609.0 ≤3.0
725.2 ≤4.8
819.5 ≤2.0

$^{165}_{67}Ho_{98}$

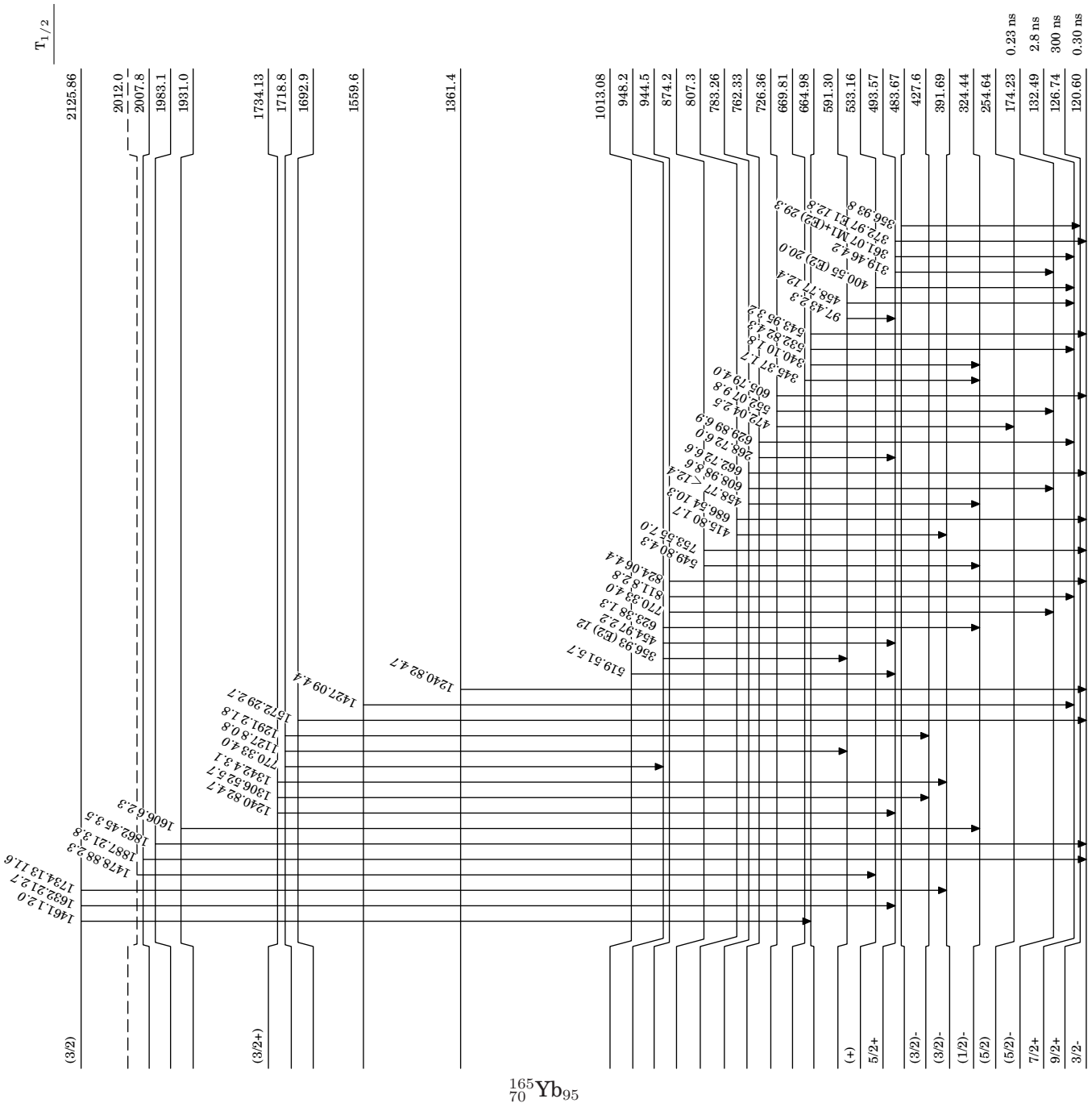

(13/2-) 820
9/2- 802.3
3/2- 790.8
9/2+ 744.0
(9/2-) 730.1
7/2+ 715.330
5/2- 702
(11/2-) 688.7
(1/2)- 680.1
17/2- 672.7
(7/2)- 638.1
(9/2+) 601.3
7/2+ 589.798
(5/2)- 566.83
5/2+ 539.009
3/2- 515.472
15/2- 499.0
7/2+ 491.044
3/2+ 449.3
1/2+ 429.4
5/2+ 419.6
3/2+ 361.671
13/2- 345.0
11/2- 209.804
9/2- 94.700
7/2- 0.0
609.0 ≤3.0
725.2 ≤4.8
201.1 1.7
212.5 ≤7.3
311.2 1.8
251.9 ≤9
342.0 0.8
361.8
205.0 2.0
520.5 1.4
635.3 3.0
730.0 0.8
619.7 ≤1.6
715.2 ≤6.6
251.9
688.8 8.0
251.9 ≤9
174.1 2.5
328.1 0.8
428.7 0.9
543.5 ≤5.5
637.9 2.1
181.8 3.0
170.1 4.5
228.0 0.7
205.0 ≤2.0
472.3 6.6
566.8 ≤10
119.3 2.0
515.1 6.0
153.9 4.6
289.2 2.2
129.6 2.0
29.7
87.6
67.7
57.8
361.80 100
135.4 10
250.1 ≤9.0
115.10 22
209.8 2.5
94.73 43
$^{165}_{67}Ho_{98}$

E(level)	Eγ	Iγ	Mult.
0.0			
11.93 *21*			
81.00 *23*	69.1 *1*	41 *4*	
130.20 *10*	118.3 *2*	89 *12*	
	130.2 *1*	100 *10*	
159.26 *22*	147.3 *12*	19 *15*	
161.30 *25*	80.3 *11*	92 *10*	
182.12 *25*	170.2 *2*	79 *10*	
211.19 *24*	130.2 *1*	100	
253.3 *3*	92.0 *1*	100 *5*	
293.91 *23*	111.8 *2*	17 *3*	
	134.6 *1*	292 *15*	
362.68 *21*	203.2 *4*	52 *15*	
	232.5 *2*	34 *5*	
366.74 *25*	155.6 *1*	70 *7*	
	285.8 *2*	63 *10*	
370.0 *3*	116.7 *1*	175 *22*	
	208.8 *3*	28 *9*	
414.23 *22*	120.4 *2*	39 *5*	
	255.0 *1*	133 *10*	
498.37 *23*	84.2 *1*	30 *3*	
	204.4 *1*	205 *25*	
512.5 *3*	142.5 *1*	185 *13*	
	259.1 *2*	36 *5*	
545.9 *3*	179.2 *2*	36 *5*	
	334.4 *3*	113 *16*	
676.6 *3*	164.2 *1*	167 *20*	
	306.6 *2*	93 *12*	
690.1 *3*	275.8 *3*	48 *12*	
	327.4 *3*	46 *9*	
747.1 *3*	201.2 *3*	25 *5*	
	380.3 *3*	83 *13*	
769.44 *25*	271.1 *2*	46 *9*	
	355.2 *2*	191 *16*	
	403.7 *5*	25 *10*	
796.89 *25*	298.5 *1*	224 *18*	
867.7 *3*	191.1 *1*	137 *15*	
	355.2 *2*	191 *20*	
969.0 *4*	221.8 *3*	18 *5*	
	423.0 *4*	89 *18*	
1074.2 *4*	206.4 *2*	115 *17*	
	397.6 *3*	127 *19*	
1103.7 *4*	334.4 *3*	113 *16*	
	413.2 *4*	52 *13*	
1186.5 *3*	389.7 *2*	174 *16*	
1206.8 *4*	238		
	409.0 *5*	28 *6*	
	438.5 *5*	48 *10*	
1217.1 *4*	420.1 *6*	29 *9*	
	447.4 *4*	54 *11*	
	470.2 *7*	34 *9*	
1310.8 *4*	236.6 *2*	95 *12*	
	442.9 *4*	89 *18*	
1467.9 *5*	261.6 *5*	7 *3*	
	498.6 *4*	106 *20*	
1552.3 *4*	241.5 *2*	52 *10*	
	478.3 *4*	87 *17*	
1591.8 *5*	374.7		
	488.1 *7*	39 *10*	
1661.1 *5*	474.7 *4*	121 *20*	
1730.6 *5*	523.7 *5*	45 *9*	
	544		
1747.3 *6*	529.3 *7*	39 *12*	
	561.8 *7*	41 *10*	
1830.0 *5*	277.7 *3*	39 *10*	
	519.1 *10*	65 *13*	
2029.7 *9*	561.8 *7*	41 *10*	
2099.0 *5*	269.0 *2*	33 *7*	
	546.6 *5*	77 *15*	
2138.4 *8*	546.6	77	
2213.0 *7*	551.9 *5*	44 *10*	
2308.5 *6*	577.7		
	647.6		
2332.3 *7*	585.1		
	671		
2411.5 *6*	312.2		
	581.9		
2624.6 *10*	594.9	48 *12*	
2666.3 *9*	527.9		
2698.0 *7*	286.8 *5*	9 *5*	
	598.8 *10*	50 *12*	
2831.7 *9*	618.7	20 *5*	
2862.1 *8*	553.6		
3019.0 *8*	321.1 *5*	18 *4*	
	606.5 *10*	28 *7*	
3156.3 *11*	531.7		
3270.7 *8*	251.6 *3*	17 *2*	
	572.8		
3506.7 *13*	675		

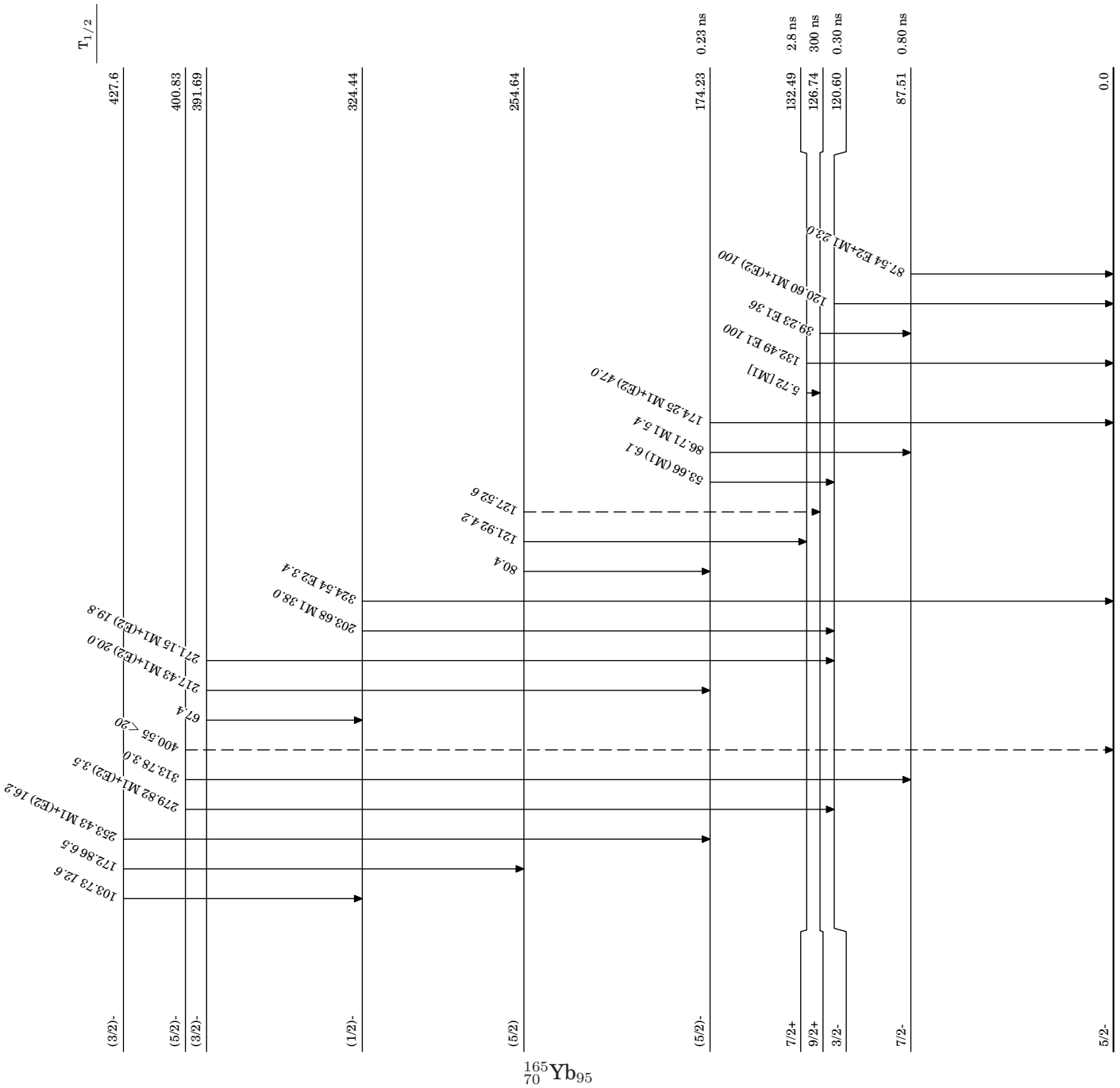

T1/2
3506.7
3270.7
3156.3
3019.0
2862.1
2831.7
2698.0
2666.3
2624.6
2411.5
2332.3
2308.5
2213.0
2138.4
2099.0
2029.7
1830.0
1747.3
1730.6
1661.1
1591.8
1552.3
1467.9
1310.8
1217.1
1206.8
1186.5
1103.7
1074.2
969.0
867.7
796.89
769.44
747.1
690.1
37/2-
35/2-
33/2+
33/2-
31/2+
33/2-
31/2-
29/2+
29/2+
29/2-
27/2+
27/2+
29/2-
25/2+
27/2-
25/2+
25/2-
23/2+
23/2+
25/2-
21/2+
23/2-
21/2+
21/2-
19/2+
19/2+
21/2-
17/2+
19/2-
17/2+
17/2-
17/2-
15/2+
15/2+
13/2+
675
251.6,17
572.8
531.7
321.1,18
606.5,28
553.6
618.7,20
286.8,9
598.8,50
527.9
594.9,48
312.2
581.9
585.1
671
577.7
647.6
551.9,44
546.6,77
269.0,33
561.8,41
277.7,39
519.1,65
529.3,39
561.8,41
533.7,45
544
474.7,121
374.7
488.1,39
241.5,52
478.3,87
261.6,7
498.6,106
236.6,95
442.9,89
420.1,29
447.4,54
470.2,34
238
409.0,28
438.5,48
389.1,174
334.4,113
413.3,52
206.4,115
$^{165}_{69}Tm_{96}$


T1/2
9 us
322 ps
80 us
969.0
867.7
796.89
769.44
747.1
690.1
676.6
545.9
512.5
498.37
414.23
370.0
366.74
362.68
293.91
253.3
211.19
182.12
161.30
159.26
130.20
81.00
11.93
0.0
17/2+
17/2-
17/2-
15/2+
15/2+
13/2+
15/2-
13/2+
13/2-
13/2-
11/2+
11/2-
11/2+
9/2+
9/2-
9/2-
9/2+
5/2-
7/2-
7/2+
5/2+
7/2+
3/2+
1/2+
221.8 18
423.0 89
191.1 137
355.2 191
298.5 224
271.1 46
355.2 191
403.1 25
201.2 25
380.3 83
275.8 48
327.4 46
164.2 167
306.6 93
179.2 36
334.4 113
142.5 185
259.1 36
84.2 30
204.4 205
120.4 39
255.0 133
116.7 175
208.8 28
155.6 70
285.6 63
203.2.52
232.5 34
111.8 17
134.6 292
92.0 100
130.2 100
170.2 79
80.3 92
147.3 19
118.3 89
130.2 100
69.1 41
$^{165}_{69}Tm_{96}$

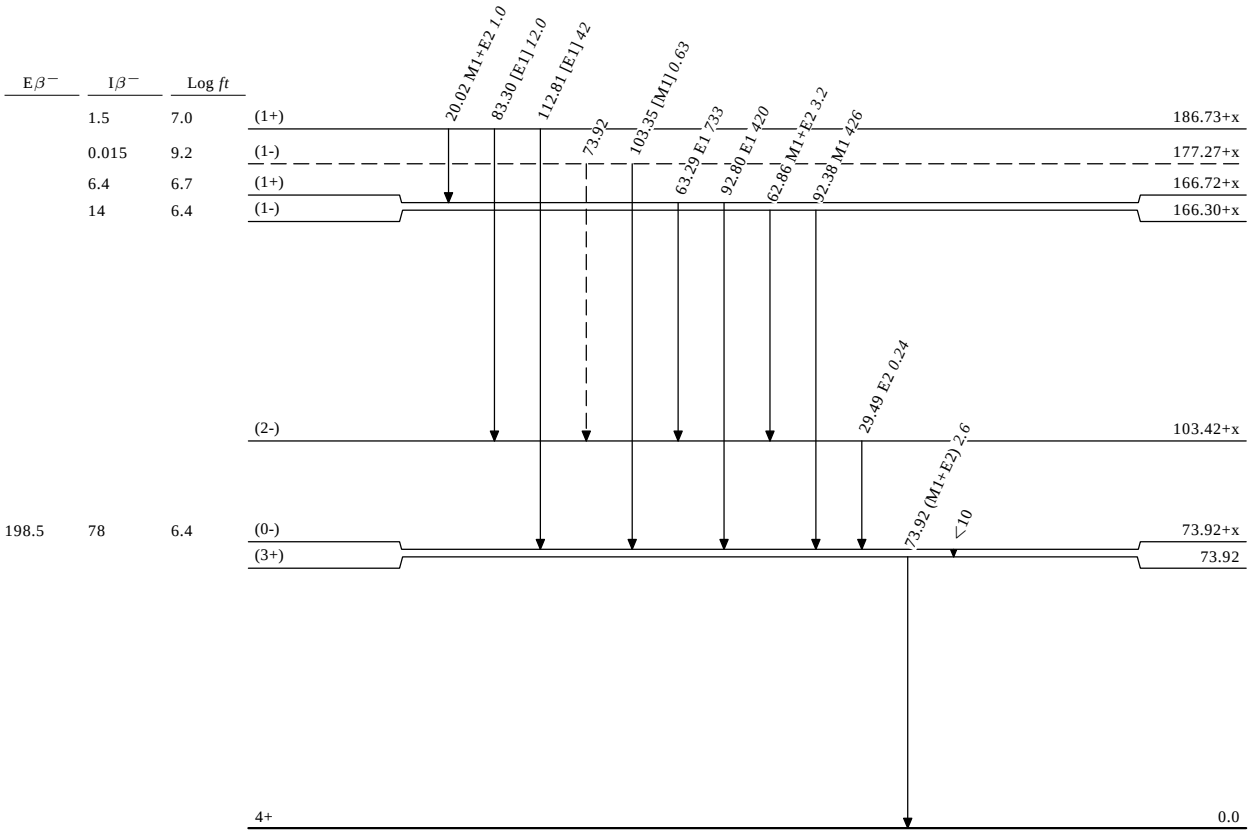
E(level)	Eγ	Iγ	Mult.
0.0			
87.51 *6*	87.54 *6*	23.0 *16*	E2+M1
120.60 *6*	120.60 *6*	100 *6*	M1+(E2)
126.74 *10*	39.23 *8*	36 *3*	E1
132.49 *6*	5.72		[M1]
	132.49 *6*	100 *6*	E1
174.23 *6*	53.66 *18*	6.1 *7*	(M1)
	86.71 *6*	5.4 *6*	M1
	174.25 *6*	47.0 *25*	M1+(E2)
254.64 *10*	80.4 *3*		
	121.92 *10*	4.2 *7*	
	127.52 *20*	6 *1*	
	134.10 *16*	4.6 *10*	
	167.07 *10*	2.5 *4*	
	254.89 *11*	4.0 *7*	
324.44 *11*	203.68 *6*	38.0 *25*	M1
	324.54 *11*	3.4 *6*	E2
391.69 *15*	67.4		
	217.43 *6*	20.0 *15*	M1+(E2)
	271.15 *10*	19.8 *10*	M1+(E2)
	391.76 *10*	3.5 *5*	
400.83 *12*	279.82 *10*	3.5 *6*	M1+(E2)
	313.78 *12*	3.0 *5*	
	400.55 *10*	20 *LT*	
427.6 *2*	103.73 *17*	12.6 *25*	
	172.86 *8*	6.5 *7*	
	253.43 *7*	16.2 *15*	M1+(E2)
483.67 *15*	356.93 *10*	8 *2*	
493.57 *15*	319.46 *10*	4.2 *6*	
	361.07 *10*	29.3 *12*	M1+(E2)
	372.97 *10*	12.8 *6*	E1
533.16 *15*	400.55 *10*	20.0 *8*	(E2)
591.30 *17*	97.43 *17*	2.3 *3*	
	458.77 *12*	12.4 *6*	
664.98 *20*	340.10 *25*	1.8 *4*	
	532.82 *15*	4.3 *4*	
	543.95 *15*	3.2 *3*	
669.81 *21*	345.37 *18*	1.7 *4*	
726.36 *20*	472.04 *17*	2.5 *4*	
	552.07 *12*	9.8 *8*	
	605.79 *14*	4.0 *4*	
	638.50 *16*	2.9 *3*	
762.33 *15*	268.72 *11*	6.0 *7*	
	629.89 *10*	6.9 *4*	
783.26 *15*	458.77 *12*	12.4 *LT*	
	608.98 *10*	8.6 *5*	
	662.72 *11*	6.6 *4*	
807.3 *2*	415.80 *17*	1.7 *4*	
	686.54 *10*	10.3 *5*	
874.2 *15*	549.80 *20*	4.3 *7*	
	753.55 *11*	7.0 *5*	
944.5 *2*	770.33 *14*	4.0 *5*	
	811.8 *3*	2.8 *11*	
	824.06 *15*	4.4 *4*	
948.2 *2*	356.93 *10*	12 *2*	(E2)
	454.97 *15*	2.2 *10*	
	623.38 *23*	1.3 *3*	
	815.31 *14*	5.5 *4*	
	827.61 *25*	2.3 *3*	
	860.5 *3*	1.7 *3*	
1013.08 *2*	519.51 *15*	5.7 *5*	
1361.4 *2*	1240.82 *16*	4.7 *4*	
1559.6 *2*	1427.09 *17*	4.4 *4*	
1692.9 *3*	1572.29 *18*	2.7 *3*	
1718.8 *8*	770.33 *14*	4.0 *5*	
	1127.8 *5*	0.8 *3*	
	1291.2 *7*	1.8 *8*	
1734.13 *20*	1240.82 *16*	4.7 *4*	
	1306.52 *18*	5.7 *4*	
	1342.4 *3*	3.1 *4*	
	1559.86 *15*	7.2 *4*	
	1601.43 *13*	16.4 *7*	
	1613.46 *13*	15.1 *7*	
1931.0 *4*	1606.6 *3*	2.3 *3*	
1983.1 *3*	1862.45 *25*	3.5 *4*	
2007.8 *4*	1887.21 *28*	3.8 *4*	
2012.0 *4*	1478.88 *22*	2.3 *3*	
2125.86 *23*	1461.1 *3*	2.0 *4*	
	1632.21 *21*	2.7 *3*	
	1734.13 *16*	11.6 *8*	
	1801.34 *20*	6.9 *6*	
	1951.9 *4*	1.4 *2*	
	2005.3 *3*	5.2 *6*	
2800			
3200			
3600			


T1/2
2125.86
2012.0
2007.8
1983.1
1931.0
1734.13
1718.8
1692.9
1559.6
1361.4
1013.08
948.2
944.5
874.2
807.3
783.26
762.33
726.36
669.81
664.98
591.30
533.16
493.57
483.67
427.6
391.69
324.44
254.64
174.23
132.49
126.74
120.60
0.23 ns
2.8 ns
300 ns
0.30 ns
(3/2)
(3/2+)
(+)
5/2+
(3/2)-
(3/2)-
(1/2)-
(5/2)
(5/2)-
7/2+
9/2+
3/2-
1461.1 2.0
1632.21 2.7
1734.13 11.6
1478.88 2.3
1887.21 3.8
1862.45 3.5
1606.6 2.3
1940.82 4.7
1306.52 5.7
1342.4 3.1
770.33 4.0
1127.8 0.8
1291.2 1.8
1572.29 2.7
1427.09 4.4
1240.82 4.7
519.51 5.7
356.93 (E2) 12
454.97 2.2
623.38 1.3
770.33 4.0
811.8 2.8
824.06 4.4
549.80 4.3
753.55 7.0
415.80 1.7
686.54 10.3
458.77 <12.4
608.98 8.6
662.72 6.6
268.72 6.6
629.89 6.0
472.04 2.5
559.07 9.8
605.79 4.0
345.37 1.7
340.10 1.8
532.82 4.3
543.95 3.2
97.43 2.3
458.17 12.4
400.55 (E2) 20.0
319.46 4.2
361.07 M1+(E2) 12.8 29.3
372.97 E1
356.93 8.8

$^{165}_{70}Yb_{95}$


T1/2
427.6
400.83
391.69
324.44
254.64
174.23
132.49
126.74
120.60
87.51
0.0
0.23 ns
2.8 ns
300 ns
0.30 ns
0.80 ns
(3/2)-
(5/2)-
(3/2)-
(1/2)-
(5/2)
(5/2)-
7/2+
9/2+
3/2-
7/2-
5/2-
103.73 12.6
172.86 6.5
253.43 M1+(E2) 16.2
279.82 M1+(E2) 3.5
313.78 3.0
400.55 <20
67.4
217.43 M1+(E2) 20.0
271.15 M1+(E2) 19.8
203.68 M1 38.0
324.54 E2 3.4
80.4
121.92 4.2
127.52 6
53.66 (M1) 6.1
86.71 M1 5.4
174.25 M1+(E2) 47.0
5.72 [M1]
132.49 E1 100
39.23 E1 36
120.60 M1+(E2) 100
87.54 E2+M1 23.0
$^{165}_{70}Yb_{95}$

E(level)	Eγ	Iγ	Mult.
0.0			
73.92 *2*	73.92 *2*	2.6 *2*	(M1+E2)
73.92+X	10 *LT*		
103.42+X	29.49 *2*	0.24 *2*	E2
166.30+X	62.86 *2*	3.2 *5*	M1+E2
	92.38 *1*	426 *22*	M1
166.72+X	63.29 *2*	733 *51*	E1
	92.80 *2*	420 *22*	E1
177.27+X	73.92		
	103.35 *10*	0.63 *19*	[M1]
186.73+X	20.02 *2*	1.0 *4*	M1+E2
	83.30 *5*	12.0 *6*	[E1]
	112.81 *5*	42 *3*	[E1]


Eβ⁻
Iβ⁻
Log ft
1.5
7.0
0.015
9.2
6.4
6.7
14
6.4
198.5
78
6.4
(1+)
(1-)
(1+)
(1-)
(2-)
(0-)
(3+)
4+
186.73+x
177.27+x
166.72+x
166.30+x
103.42+x
73.92+x
73.92
0.0
20.02 M1+E2 1.0
83.30 [E1] 12.0
112.81 [E1] 42
73.92
103.35 [M1] 0.63
63.29 E1 733
92.80 E1 420
62.86 M1+E2 3.2
92.38 M1 426
29.49 E2 0.24
73.92 (M1+E2) 2.6
<10

$^{234}_{91}Pa_{143}$

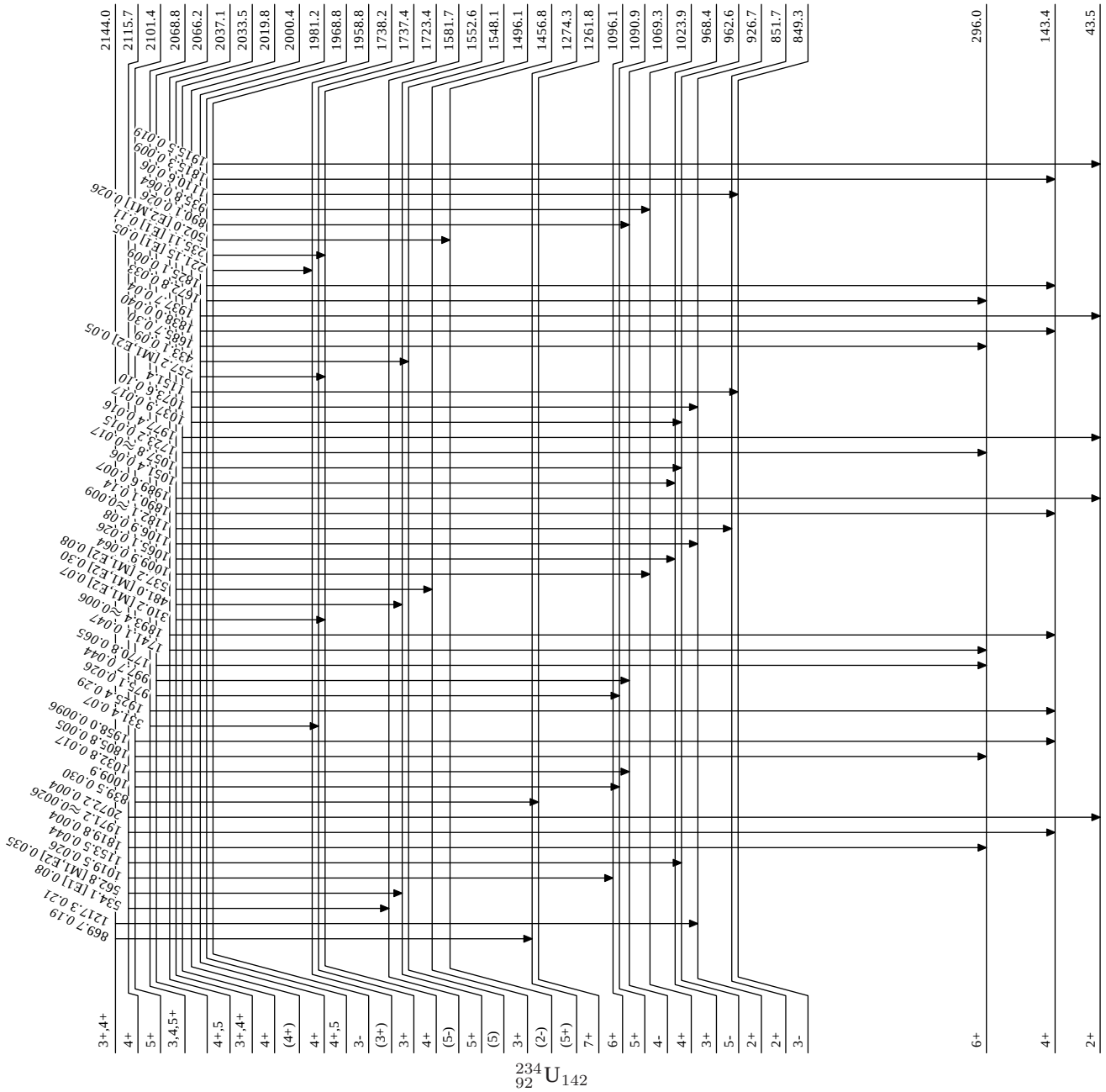
E(level)	Eγ	Iγ	Mult.
0.0			
43.5 *17*	43.49 *2*	0.12 *3*	E2
143.4 *23*	99.86 *2*	3.1 *5*	E2
296.0 *3*	152.71 *2*	5.8 *4*	E2
497.0 *4*	200.97 *3*	0.87 *9*	E2
786.3 *21*	742.81 *3*	2.0 *1*	E1
	786.27 *3*	1.16 *6*	(E1)
809.9 *8*	766.4 *2*	0.07 *3*	(E2)
	810.0 *7*		E0
849.3 *25*	705.9 *1*	2.2 *1*	[E1]
	805.80 *5*	2.45 *15*	[E1]
851.7 *5*	41.82 *11*		
	708.3 *2*	0.022 *8*	[E2]
	808.4 *3*	0.035 *10*	E0+E2
	851.8 *1*	0.07 *2*	[E2]
926.7 *22*	783.4 *1*	0.29 *3*	[E2]
	883.24 *4*	9.3 *6*	E2
	926.72 *15*	7.0 *9*	(E2)
947.6 *5*	804.1 *1*	0.6 *2*	E0+E2
	904.2 *1*	0.33 *2*	[E2]
962.6 *3*	666.5 *1*	1.13 *7*	[E1]
	819.2 *1*	1.83 *10*	[E1]
968.4 *3*	825.1 *2*	1.83 *10*	[E2]
	925.0 *1*	7.6 *5*	(E2)
989.4 *21*	62.70 *1*	1.5 *4*	E1
	140.15 *2*	0.49 *5*	M1+E2
	203.12 *3*	1.19 *10*	M1+E2
	946.00 *3*	13.0 *8*	(E1)
1023.8 *3*	34.30 *4*	0.0033 *AP*	(E2)
	54.96 *10*	0.009 *LE*	[E1]
	97.17 *10*	0.23 *8*	[E1]
	174.55 *3*	0.16 *2*	[M1+E2]
	880.5 *1*	4.1 *AP*	[E1]
	980.3 *1*	2.6 *AP*	[E1]
1023.9 *4*	54.96 *10*	0.009 *LT*	[M1+E2]
	727.8 *2*	0.11 *1*	[E2]
	880.5 *1*	6.0 *AP*	[E2]
	980.3 *1*	1.7 *AP*	[E2]
1069.3 *24*	45.45 *5*	0.026 *8*	M1+E2
	79.84 *2*	0.06 *2*	E2
	100.89 *2*	0.12 *2*	[E1]
	106.68 *5*	0.035 *10*	[M1]
	220.00 *8*	0.14 *2*	(M1)
	926.0 *2*	1.7 *12*	[E1]
1085.0 *10*	233.6 *2*		
	235.9 *3*		
	298.7 *2*	0.013 *5*	[E1]
	942.0 *3*	0.044 *7*	[E2]
	1041.1 *2*	0.031 *10*	[E2,M1]
	1085.3 *3*	0.026 *7*	[E2]
1090.9 *4*	794.9 *2*	0.65 *8*	[E2]
	947.7 *2*	1.57 *15*	[E2]
1096.1 *9*	799.7 *2*		E0+E2
	952.7 *1*	0.08 *1*	
1125.3 *5*	628.1 *1*	0.23 *4*	[E1]
	829.3 *2*	0.35 *10*	[E1]
1126.6 *3*	137.23 *5*	0.026 *8*	[E1]
	199.95 *5*	0.07 *2*	(E0+E2+M1)
	275.04 *10*	0.09 *2*	[M1,E2]
	316.7 *1*	0.10 *1*	[E2]
	340.2 *1*	0.039 *8*	[E1]
	1083.2 *1*	0.49 *3*	(M1)
	1126.8 *1*	0.29 *3*	[E2]
1127.5 *3*	58.20 *6*	0.0083 *26*	(E2)
	103.77 *2*	0.23 *3*	(E2)
	164.94 *5*	0.05 *2*	[E2,M1]
	278.3 *1*	0.04 *1*	[E2]
	831.5 *1*	4.0 *2*	[E1]
	984.2 *1*	1.57 *15*	[E1]
1165.4 *4*	196.80 *5*	0.07 *2*	E0+E2+M1
	313.5 *1*	0.10 *1*	[E2,M1]
	1021.8 *2*	0.14 *3*	[M1]
	1121.7 *1*	0.24 *3*	M1
1172.0 *3*	675.1 *1*	0.097 *10*	[E2]
	876.0 *1*	2.45 *2*	(E2)
	1028.7 *1*	0.55 *3*	[E2]
1194.8 *24*	67.25 *10*	0.035 *10*	M1+E2
	69.46 *5*	0.017 *7*	[E2,M1]
	125.46 *1*	0.76 *9*	E2
	232.21 *3*	0.17 *2*	[E2,M1]
	898.67 *5*	3.15 *20*	[E1]
1214.7 *5*	267.12 *5*	0.17 *2*	[E2,M1]
	365.0 *3*	0.017 *6*	[E1]
	918.4 *1*	0.096 *10*	[E2]
	1171.3 *1*	0.087 *10*	[E2]
1237.2 *4*	247.79 *7*	3.6E-4 *3*	
	310.52 *10*	1.30E-4 *14*	
	387.94 *6*	6.9E-4 *4*	
	427.4 *4*	3.0E-5 *8*	
	450.93 *4*	3.8E-3 *18*	M1+E2
	1194.0 *2*	0.020 *5*	E1
	1237.3 *3*	0.009 *LT*	E1

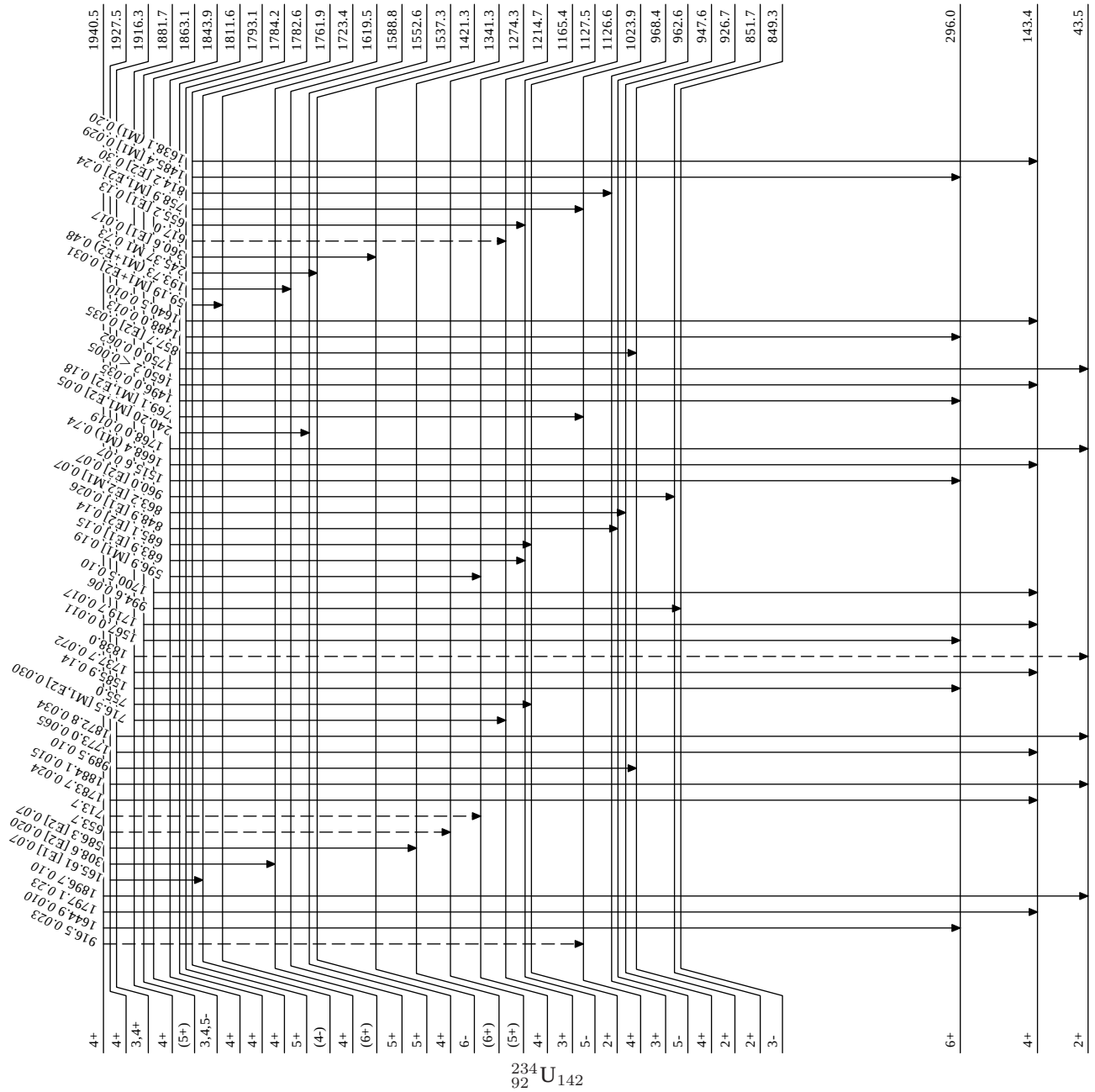
E(level)	Eγ	Iγ	Mult.
1261.8 *4*	764.8 *2*	0.19 *4*	[M1,E2]
	965.8 *1*	0.46 *3*	[M1,E2]
1274.3 *9*	978.2 *3*	0.087 *20*	
1277.5 *3*	149.88 *3*	0.07 *2*	[E2]
	780.4 *2*	0.87 *4*	[E1]
	981.6 *3*	0.7 *2*	[E1]
1312.2 *9*	75.0 *3*		
	343.8 *2*	0.033 *7*	[E1]
	365.0 *3*		
	385.4 *1*	0.04 *1*	[E1]
1341.3 *8*	379.1 *1*	0.04 *1*	[E1]
	1044.4 *2*	0.030 *AP*	
1421.3 *25*	143.78 *2*	0.31 *3*	(M1+E2)
	159.48 *2*	0.63 *7*	[E1]
	226.50 *3*	4.1 *3*	M1+E2
	249.22 *1*	2.4 *3*	E1
	293.79 *5*	2.9 *2*	M1+E2
	295.91 *8*	0.14 *2*	[M1+E2]
	330.40 *5*	0.3 *AP*	[E1]
	351.9 *1*	0.40 *3*	E2
	397.7 *3*	0.026 *6*	[M2]
	458.68 *5*	1.10 *6*	M1+E2
	1125.2 *1*	0.35 *7*	[E1]
	1277.7 *2*	0.043 *7*	[M2]
1447.5 *8*	275.04 *10*		
	320.4 *1*	0.050 *6*	[E2,M1]
	1151.4 *3*	0.031 *9*	[E1]
1456.8 *6*	468.0 *1*		
	669.7 *1*	0.0005 *LT*	
	1414.4 *2*	0.0026 *LT*	
1486.2 *12*	559.2 *2*	0.07 *2*	[E1]
	1342.9 *2*	0.012 *4*	[E1]
	1442.8 *2*	0.030 *6*	[E1]
1496.1 *3*	221.83 *10*	0.07 *2*	[E2]
	330.40 *5*	0.45 *AP*	M1+E2
	369.50 *5*	2.40 *15*	M1
	426.95 *5*	0.44 *3*	[E1]
	472.3 *1*	0.35 *2*	[M1]
	506.75 *5*	1.25 *8*	[E1]
	527.9 *1*	0.38 *3*	(M1)
	569.5 *1*	8.0 *8*	M1
	646.5 *1*	0.11 *1*	[E1]
	1352.9 *1*	1.12 *5*	M1
	1452.7 *1*	0.78 *5*	[M1]
1502.4 *8*	1359.0 *1*	0.15 *2*	
	1458.9 *1*	0.09 *2*	

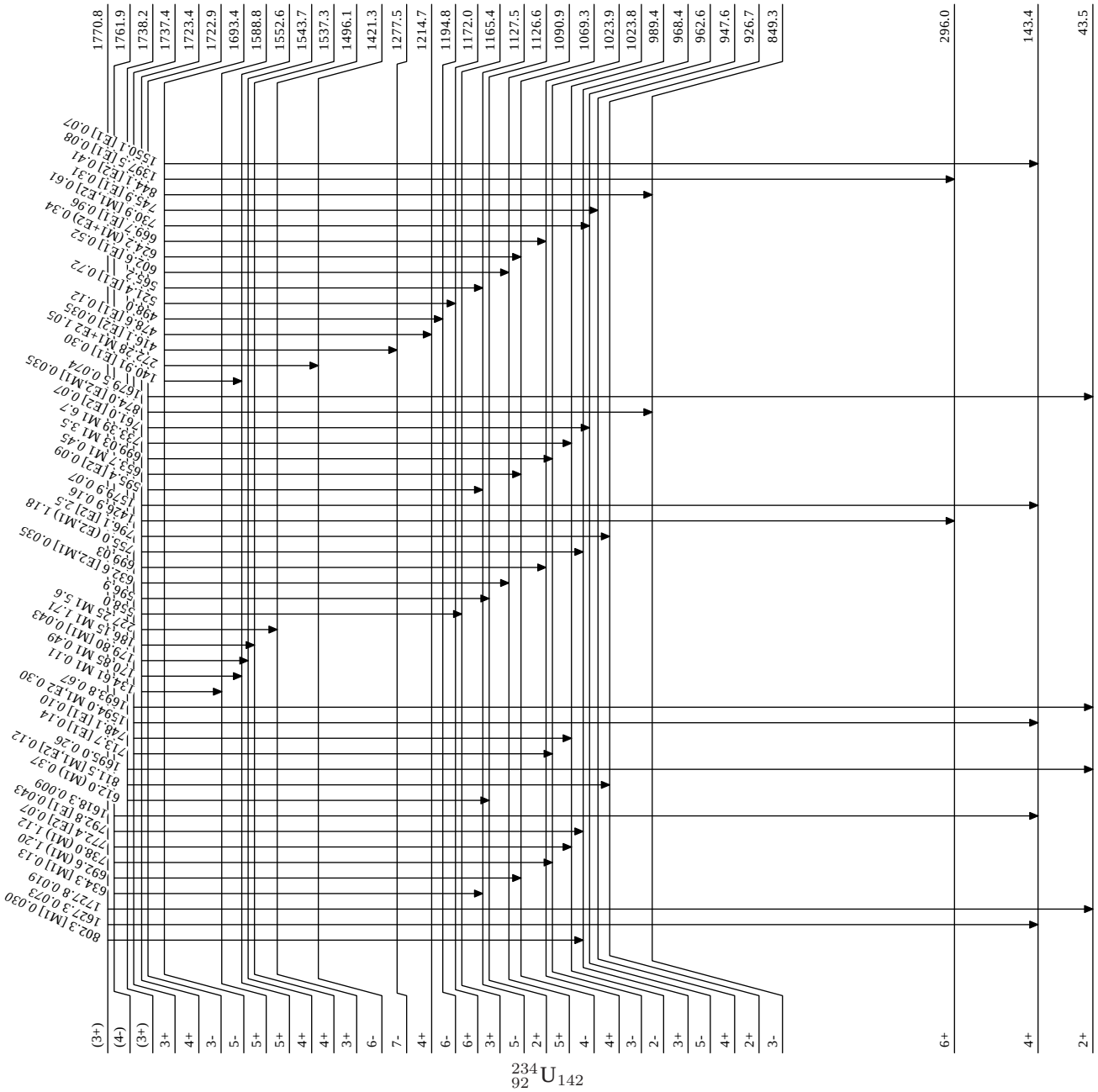
E(level)	Eγ	Iγ	Mult.
1533.3 *7*	464.2 *1*	0.030 *10*	[M1]
	543.8 *1*	0.13 *2*	[E2]
	1389.6 *2*	0.07 *2*	[E1]
1537.3 *3*	372.0 *1*	1.18 *8*	M1(+E2)
	409.8 *1*	0.33 *3*	[E1]
	446.6 *1*	0.11 *1*	[M1]
	468.0 *1*	0.21 *2*	[E1]
	513.4 *1*	0.73 *AP*	[E1]
	513.4 *1*	0.37 *AP*	[M1]
	568.9 *2*	3.5 *4*	M1
	590.3 *10*	0.035 *10*	[E2,M1]
	685.1 *2*		
	1241.2 *1*	0.22 *2*	(E2)
	1393.9 *1*	2.0 *1*	M1
	1493.6 *1*	0.10 *1*	[E2]
1543.7 *6*	474.2 *2*	0.035 *10*	[E1]
	575.5 *1*	0.026 *8*	[E2,M1]
	617.0 *2*	0.05 *2*	[E2]
	1247.8 *2*	0.021 *5*	[E2]
	1400.3 *1*	0.17 *2*	[E2,M1]
	1500.0 *2*	0.011 *3*	[E2]
1548.1 *8*	452.4 *3*	0.026 *8*	
	478.6 *1*		
	1252.6 *2*	0.017 *7*	
1552.6 *3*	131.30 *1*	17.5	E1
	461.5 *1*	0.033 *10*	[E2,M1]
	529.1 *3*	0.09 *3*	[E2,M1]
	584.1 *1*	0.17 *2*	[E2]
	604.6 *3*	0.05 *2*	[E2,M1]
	1256.5 *1*	0.057 *6*	[M1,E2]
	1409.1 *2*	0.043 *8*	
1581.7 *10*	558.0 *2*	0.09 *2*	[E2]
	619.0 *2*	0.035 *10*	[M1+E2]
	634.3 *2*		
1588.8 *3*	394.1 *1*	0.09 *1*	[E1]
	461.5 *1*		
	498.0 *1*	0.06 *1*	[M1]
	519.6 *1*	0.38 *3*	[E1]
	565.2 *1*	1.00 *6*	(M1)
	1292.8 *1*	0.45 *3*	M1
	1445.4 *1*	0.31 *3*	[M1]
1619.5 *9*	357.9 *1*	0.035 *10*	[M1,E2]
	446.6 *1*		
	529.1 *3*		
	657.4 *1*	0.38 *3*	
	1475.8 *2*	0.008 *3*	

E(level)	Eγ	Iγ	Mult.
1650.0 *12*	553.7 *1*	0.043 *15*	[E1]
	1354.6 *2*	0.13 *3*	[E1]
1653.7 *7*	629.4 *1*	0.34 *5*	(M1)
	663.9 *1*	0.52 *7*	[E1]
	1510.1 *2*	0.009 *LT*	
1693.4 *3*	140.91 *3*	0.30 *3*	[E1]
	272.28 *5*	1.05 *10*	M1+E2
	416.1 *1*	0.035 *10*	[E2]
	478.6 *1*	0.12 *1*	[E1]
	498.0 *1*		
	521.4 *1*	0.72 *5*	[E1]
	565.2 *1*		
	602.6 *1*	0.52 *3*	[E1]
	624.2 *1*	0.34 *3*	(M1+E2)
	669.7 *1*	0.96 *5*	[E1]
	730.9 *2*	0.61 *8*	[M1,E2]
	745.9 *1*	0.31 *3*	[E1]
	844.1 *1*	0.41 *3*	[E2]
	1397.5 *2*	0.08 *2*	[E1]
	1550.1 *1*	0.07 *1*	[E1]
1722.9 *4*	595.4 *2*	0.09 *2*	[E2]
	653.7 *1*	0.45 *6*	M1
	699.03 *5*	3.5 *2*	M1
	733.39 *5*	6.7 *4*	M1
	761.0 *2*	0.07 *2*	[E2]
	874.0 *3*	0.035 *7*	[E2,M1]
	1679.5 *1*	0.074 *16*	
1723.4 *25*	134.61 *2*	0.11 *2*	M1
	170.85 *2*	0.49 *5*	M1
	179.80 *8*	0.043 *15*	[M1]
	186.15 *2*	1.71 *10*	M1
	227.25 *3*	5.6 *3*	M1
	558.0 *2*		
	596.9 *1*		
	632.6 *2*	0.035 *10*	[E2,M1]
	699.03 *5*		
	755.0 *1*	1.18 *6*	(E2,M1)
	796.1 *1*	2.5 *2*	[E2]
	1426.9 *1*	0.16 *2*	
	1579.9 *1*	0.07 *2*	
1737.4 *7*	713.7 *1*	0.14 *2*	[E1]
	748.1 *3*	0.10 *2*	[E1]
	1594.0 *1*	0.30 *2*	M1,E2
	1693.8 *2*	0.67 *7*	
1738.2 *6*	612.0 *1*	0.37 *3*	(M1)
	811.5 *1*	0.12 *1*	[M1,E2]
	1695.0 *3*	0.26 *6*	
1761.9 *6*	634.3 *2*	0.13 *2*	[M1]
	692.6 *1*	1.20 *7*	(M1)
	738.0 *1*	1.12 *7*	(M1)
	772.4 *2*	0.07 *2*	[E2]
	792.8 *3*	0.043 *10*	[E1]
	1618.3 *2*	0.009 *3*	
1770.8 *9*	802.3 *2*	0.030 *8*	[M1]
	1627.3 *1*	0.073 *8*	
	1727.8 *2*	0.019 *4*	
1782.6 *3*	59.19 *5*	0.031 *10*	[M1+E2]
	193.73 *3*	0.48 *6*	(M1+E2)
	245.37 *2*	0.73 *8*	M1
	360.6 *3*	0.017 *6*	[E1]
	617.0 *2*		
	655.2 *2*	0.13 *2*	[E1]
	758.9 *1*	0.24 *2*	[M1,E2]
	814.2 *1*	0.30 *2*	[E2]
	1485.4 *2*	0.029 *6*	[M1]
	1638.1 *1*	0.20 *1*	(M1)
1784.2 *13*	857.7 *2*	0.035 *7*	[E2]
	1488.0 *2*	0.013 *5*	
	1640.5 *3*	0.010 *3*	
1793.1 *6*	240.20 *10*	0.05 *2*	[M1,E2]
	769.1 *1*	0.18 *1*	[M1,E2]
	1496.0 *2*	0.035 *8*	
	1650.2 *2*	0.005 *LT*	
	1750.0 *1*	0.062 *7*	
1811.6 *6*	596.9 *1*	0.19 *2*	[M1]
	683.9 *2*	0.15 *3*	[E1]
	685.1 *2*	0.14 *3*	[E2]
	848.9 *2*	0.026 *7*	[E1]
	863.2 *2*	0.07 *2*	[E2,M1]
	960.0 *1*	0.07 *1*	[E2]
	1515.6 *2*	0.07 *1*	
	1668.4 *1*	0.74 *5*	(M1)
	1768.0 *3*	0.019 *4*	
1843.9 *17*	994.6 *3*	0.06 *2*	
	1700.5 *2*	0.10 *1*	
1863.1 *15*	1567.0 *2*	0.011 *2*	
	1719.7 *2*	0.017 *5*	
1881.7 *7*	716.5 *2*	0.030 *8*	[M1,E2]
	755.0 *1*		
	1585.9 *1*	0.14 *1*	
	1737.7 *2*	0.072 *8*	
	1838.0 *2*		

E(level)	Eγ	Iγ	Mult.
1916.3 *9*	989.5 *1*	0.10 *1*	
	1773.0 *2*	0.065 *15*	
	1872.8 *2*	0.034 *8*	
1927.5 *7*	165.61 *5*	0.07 *2*	[E1]
	308.6 *2*	0.020 *5*	[E2]
	586.3 *1*	0.07 *1*	[E2]
	653.7 *1*		
	713.7 *1*		
	1783.7 *2*	0.024 *6*	
	1884.1 *3*	0.015 *4*	
1940.5 *9*	916.5 *2*	0.023 *6*	
	1644.9 *2*	0.010 *3*	
	1797.1 *1*	0.23 *2*	
	1896.7 *2*	0.10 *2*	
1958.8 *4*	221.15 *10*	0.05 *2*	[E1]
	235.11 *3*	0.11 *2*	[E1]
	502.0 *1*	0.026 *8*	[E2,M1]
	890.1 *4*	0.026 *7*	
	935.8 *2*	0.064 *7*	
	1110.6 *1*	0.06 *1*	
	1173.1 *1*	0.044 *7*	
	1815.3 *3*	0.009 *3*	
	1915.5 *3*	0.019 *4*	
1968.8 *10*	1672.8 *1*	0.033 *10*	
	1825.1 *3*	0.009 *3*	
1981.2 *7*	257.2 *1*	0.05 *2*	[M1,E2]
	433.1 *1*	0.09 *1*	
	1685.7 *1*	0.30 *2*	
	1838.0 *2*	0.040 *9*	
	1937.7 *3*	0.04 *1*	
2000.4 *13*	1037.9 *2*	0.017 *6*	
	1073.6 *2*	0.10 *1*	
	1151.4 *3*		
2019.8 *13*	1051.4 *2*	0.06 *1*	
	1057.8 *3*	0.017 *AP*	
	1723.2 *2*	0.015 *3*	
	1977.4 *4*	0.016 *4*	
2033.5 *5*	310.2 *1*	0.07 *1*	[M1,E2]
	481.0 *1*	0.30 *2*	[M1,E2]
	537.2 *1*	0.08 *1*	[M1,E2]
	1009.9 *3*	0.064 *10*	
	1065.1 *1*	0.026 *7*	
	1106.9 *2*	0.08 *1*	
	1182.1 *2*	0.009 *AP*	
	1890.1 *2*	0.14 *1*	
	1989.6 *4*	0.007 *3*	
2037.1 *17*	1741.1 *2*	0.047 *6*	
	1893.4 *3*	0.006 *AP*	
2066.2 *10*	975.1 *1*	0.026 *7*	
	997.7 *3*	0.044 *10*	
	1770.8 *2*	0.065 *15*	
2068.8 *11*	331.4 *1*	0.07 *1*	
	1925.4 *2*	0.29 *4*	
2101.4 *9*	839.5 *1*	0.030 *7*	
	1009.9 *3*		
	1032.8 *2*	0.017 *4*	
	1805.8 *3*	0.005 *2*	
	1958.0 *4*	0.0096 *25*	
2115.7 *11*	534.1 *1*	0.08 *1*	[E1]
	562.8 *3*	0.035 *10*	[M1,E2]
	1019.5 *4*	0.026 *7*	
	1153.5 *3*	0.044 *7*	
	1819.8 *3*	0.004 *1*	
	1971.2 *4*	0.0026 *AP*	
	2072.2 *4*	0.004 *2*	
2144.0 *9*	869.7 *1*	0.19 *2*	
	1217.3 *1*	0.21 *2*	


2144.0
2115.7
2101.4
2068.8
2066.2
2037.1
2033.5
2019.8
2000.4
1981.2
1968.8
1958.8
1738.2
1737.4
1723.4
1581.7
1552.6
1548.1
1496.1
1456.8
1274.3
1261.8
1096.1
1090.9
1069.3
1023.9
968.4
962.6
926.7
851.7
849.3
296.0
143.4
43.5
3+,4+
4+
5+
3,4,5+
4+,5
3+,4+
4+
(4+)
4+
4+,5
3-
(3+)
3+
4+
(5-)
5+
(5)
3+
(2-)
(5+)
7+
6+
5+
4-
4+
3+
5-
2+
2+
3-
6+
4+
2+
$^{234}_{92}U_{142}$


1940.5
1927.5
1916.3
1881.7
1863.1
1843.9
1811.6
1793.1
1784.2
1782.6
1761.9
1723.4
1619.5
1588.8
1552.6
1537.3
1421.3
1341.3
1274.3
1214.7
1165.4
1127.5
1126.6
1023.9
968.4
962.6
947.6
926.7
851.7
849.3
296.0
143.4
43.5
4+
4+
3,4+
4+
(5+)
3,4,5-
4+
4+
4+
5+
(4-)
4+
(6+)
5+
5+
4+
6-
(6+)
(5+)
4+
3+
5-
2+
4+
3+
5-
4+
2+
2+
3-
6+
4+
2+
$^{234}_{92}U_{142}$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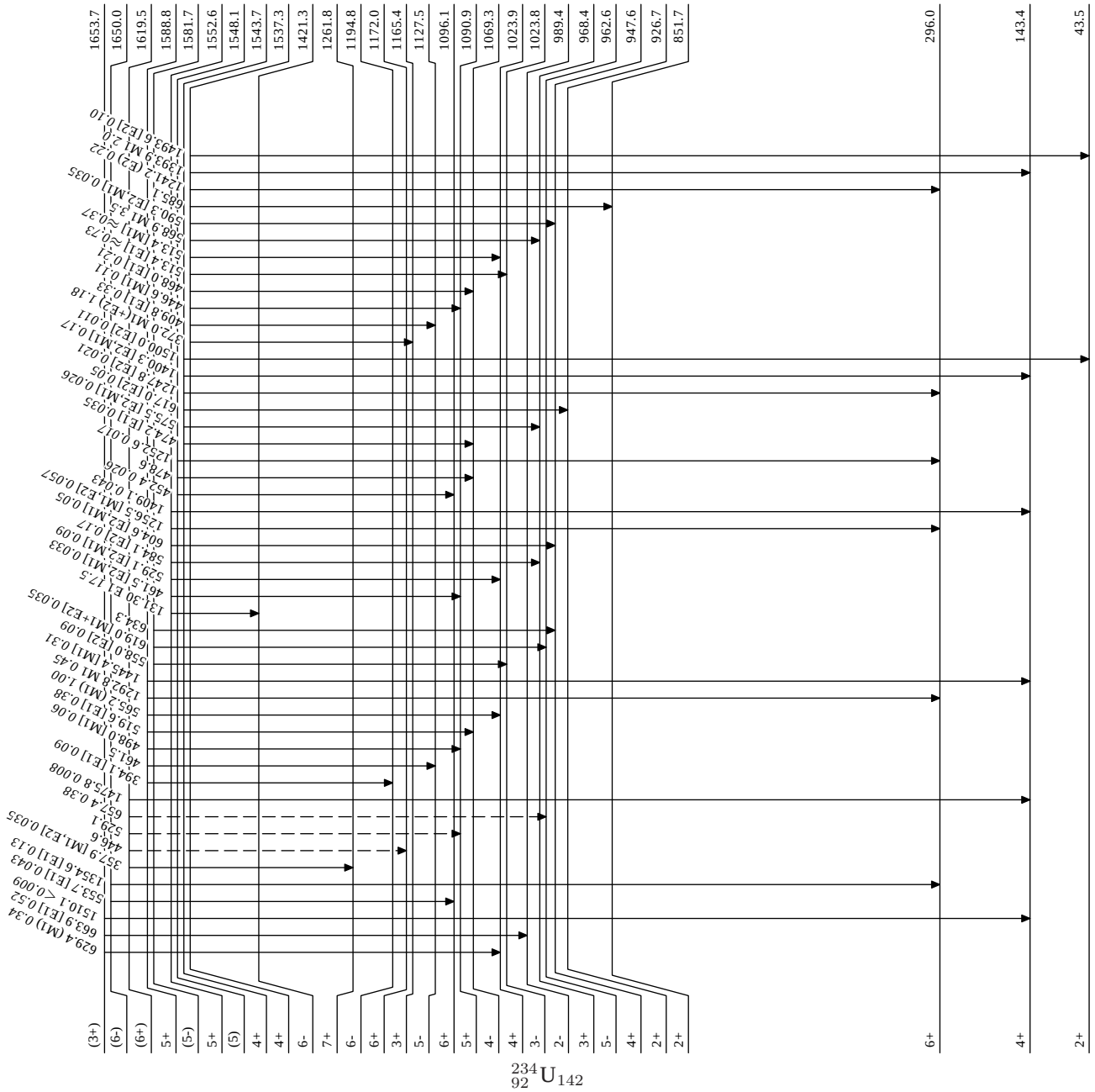
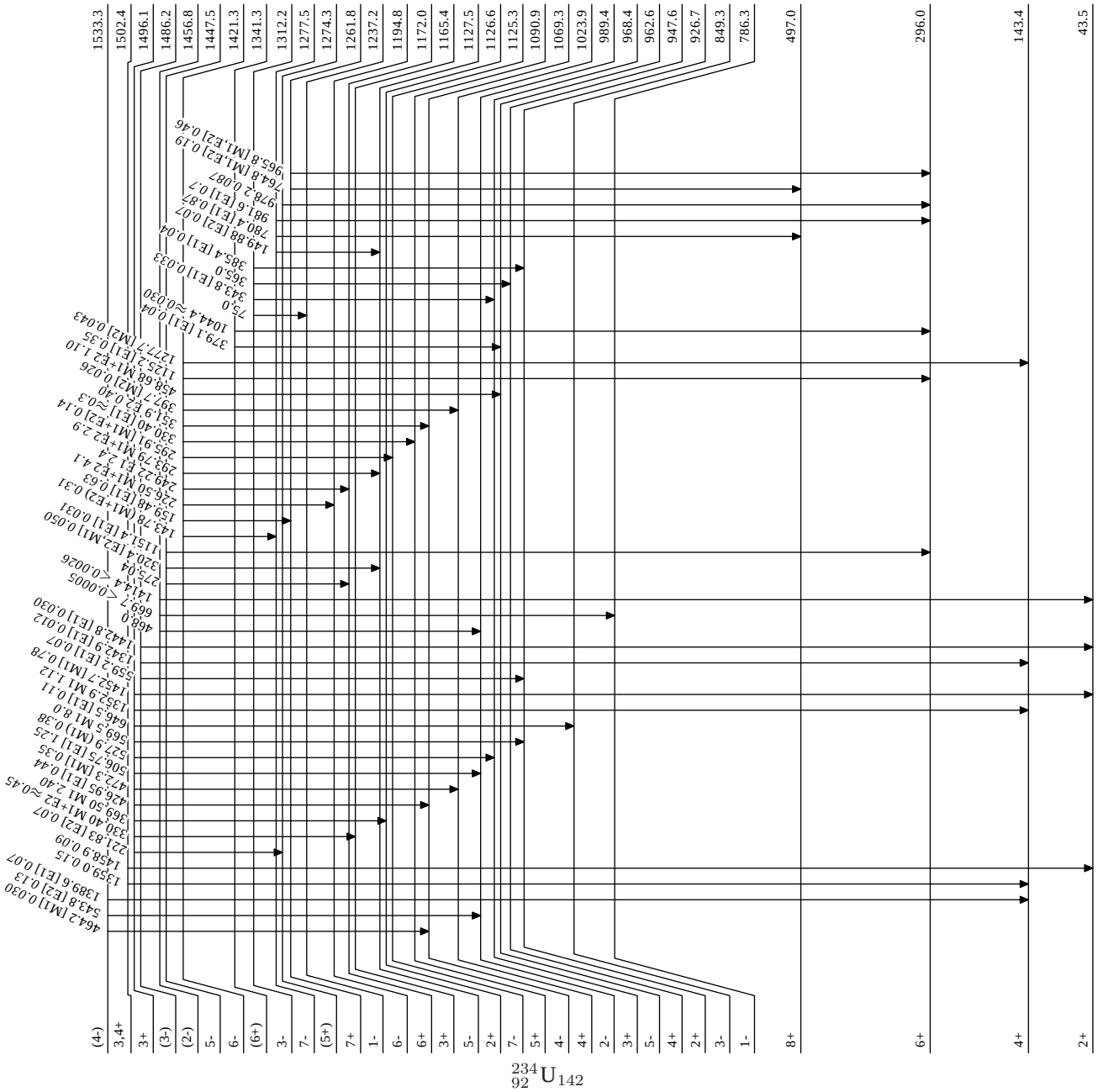
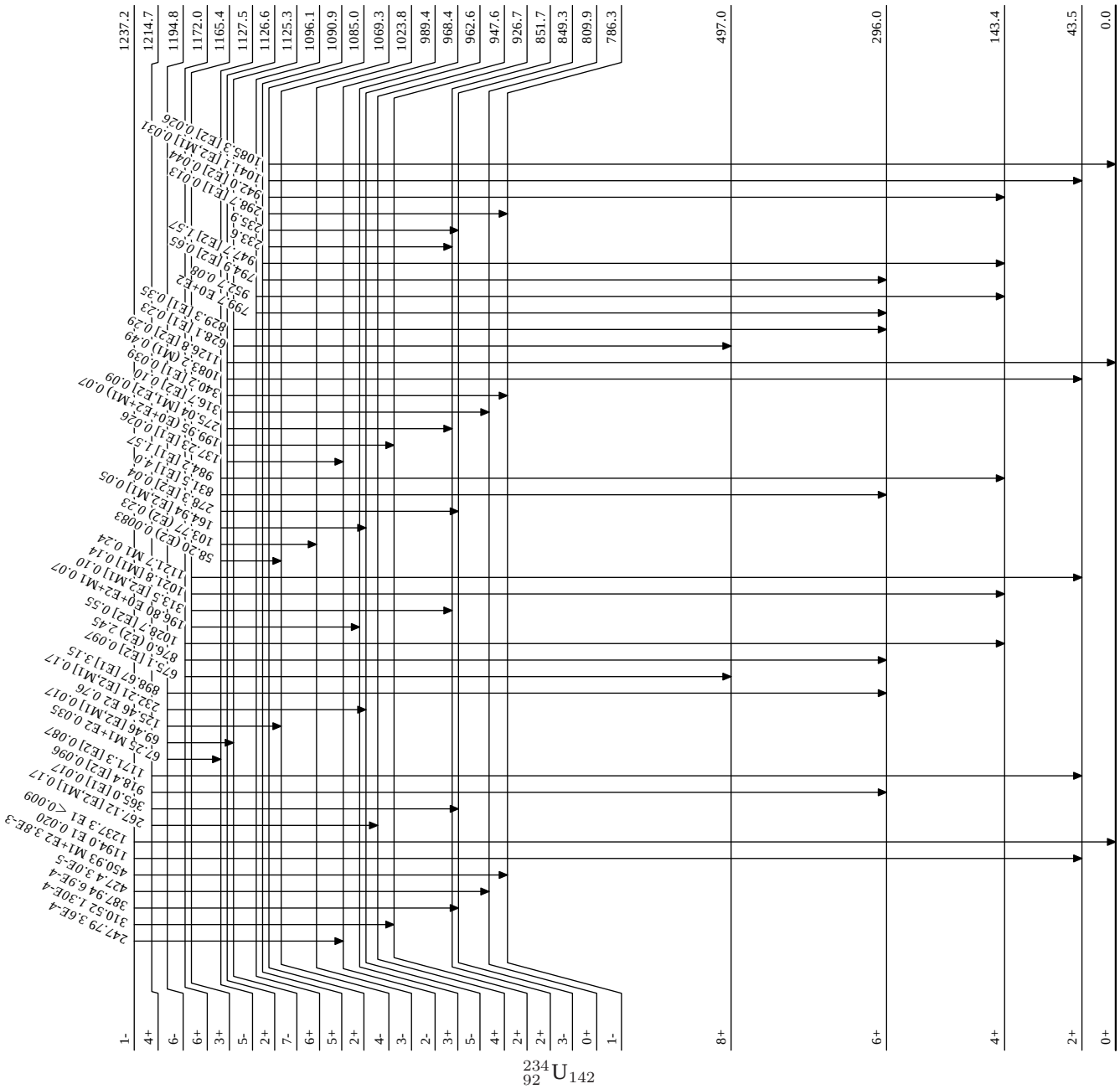
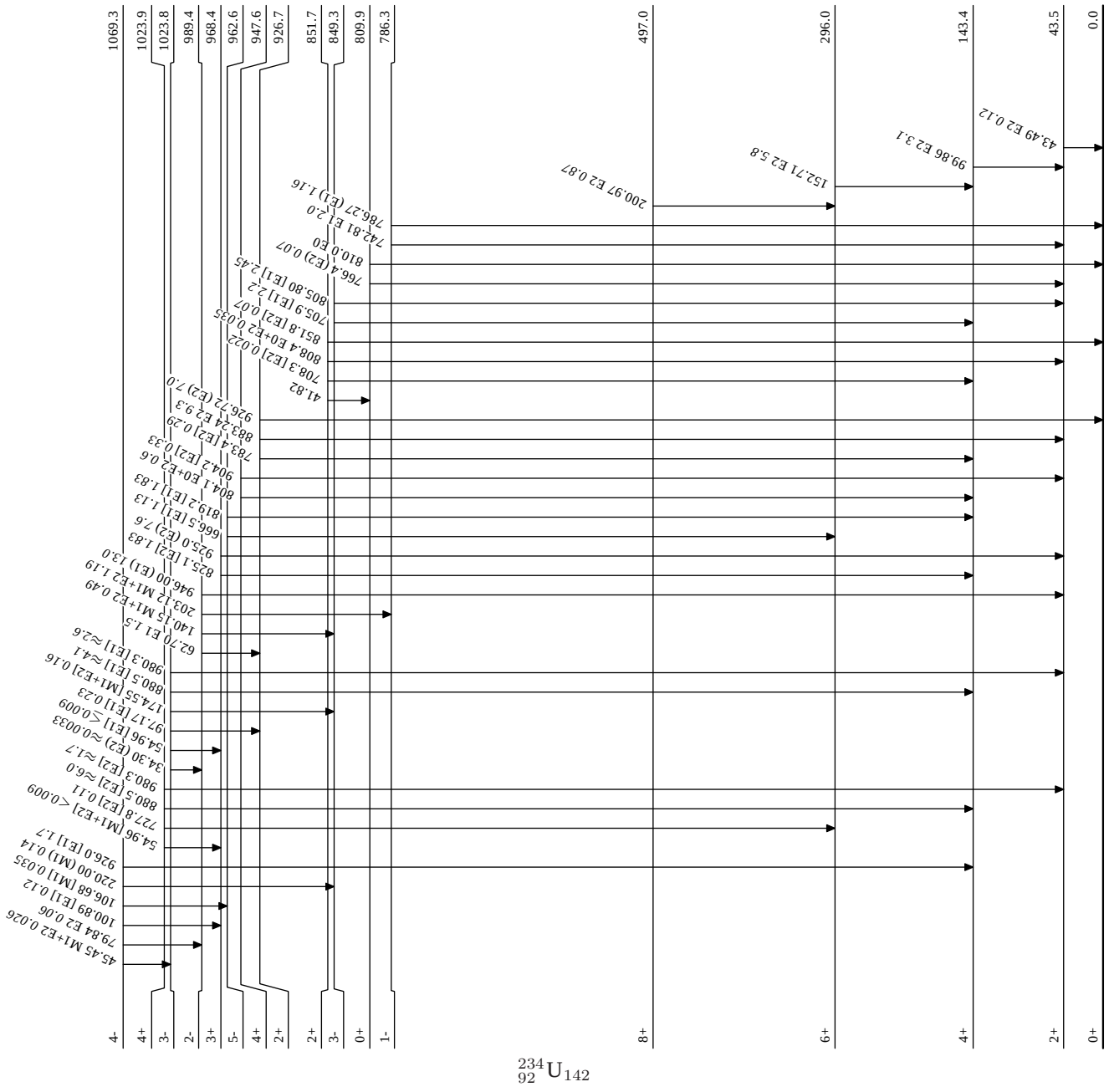
1761.9
1738.2
1737.4
1723.4
1722.9
1693.4
1588.8
1552.6
1543.7
1537.3
1496.1
1421.3
1277.5
1214.7
1194.8
1172.0
1165.4
1127.5
1126.6
1090.9
1069.3
1023.9
1023.8
989.4
968.4
962.6
947.6
926.7
849.3
296.0
143.4
43.5
(3+)
(4)
(3+)
3+
4+
3-
5-
5+
5+
4+
4+
3+
6-
7-
4+
6-
6+
3+
5-
2+
5+
4-
4+
3-
2-
3+
5-
4+
2+
3-
6+
4+
2+
$^{234}_{92}U_{142}$


1653.7
1650.0
1619.5
1588.8
1581.7
1552.6
1548.1
1543.7
1537.3
1421.3
1261.8
1194.8
1172.0
1165.4
1127.5
1096.1
1090.9
1069.3
1023.9
1023.8
989.4
968.4
962.6
947.6
926.7
851.7
296.0
143.4
43.5
(3+)
(6-)
(6+)
5+
(5-)
5+
(5)
4+
4+
6-
7+
6-
6+
3+
5-
6+
5+
4-
4+
3-
2-
3+
5-
4+
2+
2+
6+
4+
2+
629.4 (M1) 0.34
663.9 [E1] 0.52
1510.1 <0.009
553.7 [E1] 0.043
1354.6 [E1] 0.13
357.9 [M1,E2] 0.035
446.6
529.1
657.4 0.38
1475.8 0.008
394.1 [E1] 0.09
461.5
498.0 [M1] 0.06
519.6 [E1] 0.38
565.2 (M1) 1.00
1292.8 M1 0.45
1454.4 [M1] 0.31
558.0 [E2] 0.09
619.0 [M1+E2] 0.035
634.3
131.30 E1 1.75
461.5 [E2,M1] 0.033
539.1 [E2,M1] 0.09
584.1 [E2,M1] 0.17
604.6 [E2,M1] 0.09
1256.5 [M1,E2] 0.05
1409.1 0.043
452.4 0.026
478.6
1252.6 0.017
474.2 [E1] 0.035
575.5 [E2,M1] 0.026
617.0 [E2,M1] 0.05
1247.8 [E2] 0.05
1400.3 [E2,M1] 0.021
1500.0 [E2] 0.017
372.0 M1(+E2) 0.011
409.8 [E1] 0.33
446.6 [M1] 0.11
468.0 [E1] 0.21
513.4 [E1] ≈0.73
513.4 [M1] ≈0.37
568.9 M1 3.5
590.3 [E2,M1] 0.035
685.1
1241.2 (E2) 0.22
1393.9 M1 2.0
1493.6 [E2] 0.10

$^{234}_{92}U_{142}$


1533.3
1502.4
1496.1
1486.2
1456.8
1447.5
1421.3
1341.3
1312.2
1277.5
1274.3
1261.8
1237.2
1194.8
1172.0
1165.4
1127.5
1126.6
1125.3
1090.9
1069.3
1023.9
989.4
968.4
962.6
947.6
926.7
849.3
786.3
497.0
296.0
143.4
43.5
(4-)
3,4+
3+
(3-)
(2-)
5-
6-
(6+)
3-
7-
(5+)
7+
1-
6-
6+
3+
5-
2+
7-
5+
4-
4+
2-
3+
5-
4+
2+
3-
1-
8+
6+
4+
2+
$^{234}_{92}U_{142}$


1237.2
1214.7
1194.8
1172.0
1165.4
1127.5
1126.6
1125.3
1096.1
1090.9
1085.0
1069.3
1023.8
989.4
968.4
962.6
947.6
926.7
851.7
849.3
809.9
786.3
497.0
296.0
143.4
43.5
0.0
1-
4+
6-
6+
3+
5-
2+
7-
6+
5+
2+
4-
3-
2-
3+
5-
4+
2+
2+
3-
0+
1-
8+
6+
4+
2+
0+
$^{234}_{92}U_{142}$


1069.3
1023.9
1023.8
989.4
968.4
962.6
947.6
926.7
851.7
849.3
809.9
786.3
497.0
296.0
143.4
43.5
0.0
4-
4+
3-
2-
3+
5-
4+
2+
2+
3-
0+
1-
8+
6+
4+
2+
0+
45.45 M1+E2 0.026
79.84 E2 0.06
100.89 [E1] 0.12
106.68 [M1] 0.035
220.00 (M1) 0.14
926.0 [E1] 1.7
54.96 [M1+E2] <0.009
727.8 [E2] 0.11
880.5 [E2] ≈6.0
980.3 [E2] ≈1.7
34.30 (E2) ≈0.0033
54.96 [E1] ≤0.009
97.17 [E1] 0.23
174.55 [M1+E2] 0.16
880.5 [E1] ≈4.1
980.3 [E1] ≈2.6
62.70 E1 1.5
140.15 M1+E2 0.49
203.12 M1+E2 1.19
946.00 (E1) 13.0
825.1 [E2] 1.83
925.0 (E2) 7.6
666.5 [E1] 1.13
819.2 [E1] 1.83
804.1 E0+E2 0.6
904.2 [E2] 0.33
783.4 [E2] 0.29
883.24 E2 9.3
926.72 (E2) 7.0
41.82
708.3 [E2] 0.022
808.4 E0+E2 0.035
851.8 [E2] 0.07
705.9 [E1] 2.2
805.80 [E1] 2.45
766.4 (E2) 0.07
810.0 E0
742.81 E1 2.0
786.27 (E1) 1.16
200.97 E2 0.87
152.71 E2 5.8
99.86 E2 3.1
43.49 E2 0.12

$^{234}_{92}U_{142}$