$^{152}_{66}$Dy

Δ: –70129 *5* **S_n:** 9437 *5* **S_p:** 5784 *6*
Q_{EC}: 600 *40* **Q_α:** 3727 *4*

Nuclear Bands

A GS band
B Band Structure
C SD-1 band (86Tw01,91Be12,94Da20)
D SD-2 band (94Da20)
E SD-3 band (94Da20)
F SD-4 band (94Da20)
G SD-5 band (94Da20)
H SD-6 band (94Da20)

Levels and γ-ray branchings:

A **0**, 0^+, 2.38 *2* h, %α=0.100 *7*, %EC+%β^+=99.900 *7*

A **613.81** *7*, 2^+, 10 *5* ps γ_0***613.82*** *7* (†$_\gamma$100) E2

1227.59 *19*, 3^- γ_{614}***613.6*** *3*

A **1261.19** *11*, 4^+, 10.6 *16* ps γ_{614}***647.39*** *8* E2

1313.7 *3*, (2^+) γ_{614}***700.0*** *5* (†$_\gamma$100) (E2) γ_0***1313.7*** *5* (†$_\gamma$43)

1448.2 *3*, (2^+) γ_0***1448.2*** (E2)

1452.76 *22*, 1^+,2^+ γ_{614}***839.1*** (†$_\gamma$100) E2 γ_0***1452.6*** (†$_\gamma$32)

1697.9 *3*, 1^- γ_0***1697.9*** E1

1750.66 *18*, 4^+ γ_{1314}***437.0*** *5* (†$_\gamma$5) γ_{1261}***489.5*** *5* (†$_\gamma$100) M1 γ_{614}***1136.8*** *5* (†$_\gamma$41)

1781.94 *13*, 5^- γ_{1261}***520.72*** *9* (†$_\gamma$100 *16*) E1 γ_{1228}***554.27*** *19* (†$_\gamma$54 *14*) E2

1840.6 *3*, 1^-,2^-,3^- γ_{614}***1226.8*** E1

A **1944.60** *13*, 6^+, 5.1 *21* ps γ_{1782}***162.62*** *17* (†$_\gamma$0.7 *3*) γ_{1261}***683.51*** *11* (†$_\gamma$100) E2

2071.01 *15*, 6^+ γ_{1945}***126.28*** *19* (†$_\gamma$11 *3*) M1 γ_{1751}***320.35*** *14* (†$_\gamma$58 *3*) E2 γ_{1261}***809.74*** *17* (†$_\gamma$100 *16*) E2

2296.59 *15*, $(7)^+$ γ_{2071}***225.52*** *17* (†$_\gamma$63 *4*) M1 γ_{1945}***352.23*** *17* (†$_\gamma$100 *6*) (M1)

2342.68 *15*, 7^- γ_{1945}***398.10*** *17* (†$_\gamma$100 *9*) E1 γ_{1782}***560.66*** *14* (†$_\gamma$72 *9*) E2

2437.41 *14*, 8^+, 10 *3* ps γ_{2297}***140.83*** *10* (†$_\gamma$2.5 *3*) M1 γ_{2071}***366.31*** *14* (†$_\gamma$3.4 *4*) E2 γ_{1945}***492.82*** *8* (†$_\gamma$100 *5*) E2

B **2703.19** *15*, 8^+ γ_{2437}***265.6*** *3* (†$_\gamma$4.7 *19*) M1 γ_{2343}***360.5*** *3* (†$_\gamma$2.8 *9*) γ_{2297}***406.76*** *17* (†$_\gamma$5.7 *19*) (M1) γ_{1945}***758.60*** *10* (†$_\gamma$100 *6*) E2

2726.8 *6*, $(8)^-$ γ_{2343}***384.1*** *5* M1

2906.10 *16*, 9^- γ_{2703}***203.00*** *15* (†$_\gamma$13 *3*) γ_{2437}***468.5*** *3* (†$_\gamma$30 *10*) γ_{2343}***563.34*** *14* (†$_\gamma$100 *10*) E2

2930.1 *6*, $(7)^-$ γ_{2071}***859.1*** *5* E1

3149.7 *6*, 8^- γ_{2297}***853.1*** *5* E1

3160.68 *19*, $(11)^-$, 3.9 ns γ_{2906}***254.44*** *16* E2

3173.37 *17*, 10^+ γ_{2437}***735.95*** *10* E2

3173.4 *4*, (10^-) γ_{2906}***267.3*** *3* (M1)

3183.81 *17*, 10^+ γ_{2906}***278.0*** *3* (†$_\gamma$79 *22*) γ_{2437}***746.44*** *12* (†$_\gamma$100 *14*) E2

3226.9 *7*, 8^- γ_{2297}***930.3*** *6* E1

3243.9 *4*, $(9)^+$ γ_{2297}***947.3*** *3* E2

B **3396.0** *4*, 10^+ γ_{2703}***692.8*** *3* E2

3535.0 *6*, 8^-,9^- γ_{2437}***1097.6*** *5* E1

3820.27 *19*, 12^+ γ_{3184}***636.56*** *13* (†$_\gamma$94 *12*) E2 $\gamma_{3173.37}$***646.8*** *3* (†$_\gamma$100 *18*) γ_{3161}***659.55*** *15* (†$_\gamma$53 *11*)

3969.10 *22*, 13^- γ_{3161}***808.37*** *13* E2

3992.0 *3*, (13^-) γ_{3161}***831.3*** *3*

4015.8 *6*, 8^+ γ_{2297}***1719.2*** *5* M1

B **4029.9** *5*, 12^+ γ_{3396}***633.9*** *3* E2

4135.6 *5*(?) $\gamma_{3173.37}$***962.2***(?)

4430.27 *20*, 14^+ γ_{3969}***461.2*** *3* γ_{3820}***610.02*** *9* E2

4652.1 *11*, (15^-) γ_{3969}***683***

B **4652.2** *6*, 14^+ γ_{4030}***622.3*** *3* E2

4734.50 *23*, (15^-) γ_{3992}***742.4*** *3* γ_{3969}***765.30*** *17*

4804.87 *23*, $13^{(+)}$,$14^{(+)}$ γ_{4430}***374.4*** *3* γ_{3820}***984.65*** *15*

5034.81 *21*, 15^+ γ_{4805}***229.9*** *3* γ_{4735}***300.20*** *17* γ_{4430}***604.58*** *9* M1

5088.1 *3*, $(17)^+$, 60 *4* ns γ_{5035}***53.32*** *15* (†$_\gamma$100) E2

5179.1 *15*, (17^-) $\gamma_{4652.1}$***527***

B **5198.7** *7*, 16^+ $\gamma_{4652.2}$***546.5*** *3* E2

5341.7 *3*, 18^+ γ_{5088}***253.58*** *8* M1

B **5764.5** *7*, 18^+ γ_{5199}***565.8*** *3* E2

5867.0 *3*, 19^- γ_{5342}***525.27*** *11* E1

6051.6 *6*, (20^+) γ_{5342}***709.9*** *5* Q

6111.5 *4*, (20^+) γ_{5342}***769.65*** *21* E2

6129.4 *3*, 21^-, 9.5 *7* ns γ_{5867}***262.44*** *8* E2

6171.8 *4* γ_{5867}***304.80*** *21*

6225.4 *5*, (20) γ_{5867}***358.4*** *3* (D)

B **6373.5** *13*, 20^+ γ_{5765}***609*** E2

6537.0 *11* γ_{5867}***670***

6737.1 *4*, (22^+) γ_{6129}***609.0*** *10* (†$_\gamma$≈36) γ_{6112}***625.46*** *24* (†$_\gamma$100) E2

B **7054.5** *16*, 22^+ γ_{6374}***681*** E2

7120.1 *4*, 23^- γ_{6737}***382*** γ_{6129}***990.76*** *14* (†$_\gamma$100) E2

7227.1 *9*, (24^+) γ_{6737}***490.0*** *10* E2

7661.3 *4*, 25^- γ_{7120}***541.16*** *13* E2

7710.1 *9*, (24^+) γ_{7227}***483*** (†$_\gamma$36 *18*)

γ_{6737}***973*** (†$_\gamma$100 *36*)

B **7808.5** *19*, 24$^+$ γ_{7055}***754*** E2

7881.9 *4*, 27$^-$, 1.6 *2* ns γ_{7661}***220.62*** *12* E2

8185.9 *11* γ_{7882}***304***

8337.9 *11* γ_{7882}***456***

B **8633.5** *22*, 26$^+$ γ_{7809}***825*** E2

8848.8 *4*, 28$^+$, 24 *8* ps γ_{7882}***966.93*** *15* E1

8945.3 *9* γ_{7882}***1063***

8996.2 *5*, 29$^+$, 35 *10* ps γ_{8849}***147.42*** *9* M1

9398.6 *5*, 30$^+$, 7 *1* ps γ_{8996}***402.30*** *17* M1

B **9528.5** *24*, 28$^+$ γ_{8634}***895*** E2

9835.7 *10* γ_{8945}***890***

10012.3 *8* γ_{9399}***613*** γ_{8996}***1016***

10110.1 *5*, 31$^+$ γ_{10012}***97*** γ_{9836}***274***

γ_{9399}***711.50*** *21* (†$_\gamma$72 *14*) M1

γ_{8996}***1114.2*** *3* (†$_\gamma$100 *15*) E2

10257.2 *8* γ_{9399}***858***

B **10491** *3*, 30$^+$ γ_{9529}***962*** E2

10541.0 *5*, (32$^+$), 6.2 *6* ps γ_{10110}***431.0*** *3* (M1) γ_{9399}***1142***

10674.0 *12* γ_{10541}***133***

10795.1 *5*, (33$^+$), 15 *5* ps γ_{10541}***254.2*** *3* (†$_\gamma$100 *10*) D γ_{10110}***684.90*** *21* (†$_\gamma$34 *7*) Q

10961.0 *8* γ_{10257}***703*** γ_{10110}***851***

11209.0 *7* γ_{10961}***248*** γ_{10541}***668.0*** *6* γ_{10257}***952***

11395.4 *10* γ_{10795}***600***

11442.9 *8* γ_{10541}***901***

B **11519** *3*, 32$^+$ γ_{10491}***1028*** E2

11574.6 *6*, (34$^-$) γ_{11443}***131*** γ_{10961}***613***

γ_{10795}***779.60*** *21* E1

11602.1 *8* γ_{10541}***1061*** γ_{10257}***1345***

11793.0 *10* γ_{11602}***191***

11859.0 *9* γ_{11602}***257*** γ_{10795}***1064***

11963.2 *6*, (35$^-$), 1.2 *4* ps γ_{11575}***388.60*** *21* M1 γ_{11443}***520***

12178.9 *8* γ_{11859}***320*** γ_{11793}***386*** γ_{11209}***970***

12325.2 *9*, (36$^-$) γ_{11963}***362*** D γ_{11575}***750***

12428.8 *9* γ_{11395}***1033*** γ_{11209}***1220***

B **12612** *3*, 34$^+$ γ_{11519}***1093*** E2

12717.0 *9* γ_{12429}***288*** γ_{12179}***538*** γ_{11963}***754***

12946.2 *12* γ_{12429}***518***(?) γ_{11963}***983***

13048.9 *10* γ_{11963}***1086***

13117.2 *13* γ_{12325}***792***

13253.4 *14* γ_{11395}***1858***

13396.7 *9* γ_{13049}***348*** γ_{12325}***1071*** γ_{12179}***1218***

13493.2 *13* γ_{12325}***1168***

13517.2 *13* γ_{12325}***1192***

13687.2 *13* γ_{12325}***1362***

13722.0 *13* γ_{12717}***1005***

B **13771** *4*, 36$^+$ γ_{12612}***1159*** E2

14485.0 *17* γ_{13722}***763***

14663.2 *17* γ_{13687}***976***

14742.0 *17* γ_{13722}***1020***

B **14993** *4*, 38$^+$ γ_{13771}***1222*** E2

B **16276** *4*, 40$^+$ γ_{14993}***1283*** E2

16397.0 *20* γ_{14485}***1912***

17539.0 *22* γ_{16397}***1142***

B **17617** *4*, (42$^+$) γ_{16276}***1341***

B **19016** *4*, (44$^+$) γ_{17617}***1399***

B **20470** *4*, (46$^+$) γ_{19016}***1454***

C **x**, (24$^+$)

C **602.4+x** *1*, (26$^+$) γ_x***602.4*** *1* (†$_\gamma$0.17 *3*) E2 $I^{(1)}$*=83.2*, $I^{(2)}$*=88.7*, ħω*=0.312*

C **1249.9+x** *1*, (28$^+$) γ_{602+x}***647.5*** *1* (†$_\gamma$0.51 *7*) E2 $I^{(1)}$*=83.6*, $I^{(2)}$*=88.5*, ħω*=0.335*

C **1942.6+x** *2*, (30$^+$), 30 fs γ_{1250+x}***692.7*** *1* (†$_\gamma$1.01 *10*) E2 $I^{(1)}$*=83.9*, $I^{(2)}$*=88.1*, ħω*=0.358*

C **2680.7+x** *2*, (32$^+$), 22 fs γ_{1943+x}***738.1*** *1* (†$_\gamma$0.93 *11*) E2 $I^{(1)}$*=84.1*, $I^{(2)}$*=87.1*, ħω*=0.381*

C **3464.7+x** *2*, (34$^+$), 16 fs γ_{2681+x}***784.0*** *1* (†$_\gamma$0.96 *11*) E2 $I^{(1)}$*=84.3*, $I^{(2)}$*=87.1*, ħω*=0.403*

C **4294.6+x** *2*, (36$^+$), 12 fs γ_{3465+x}***829.9*** *1* (†$_\gamma$1.01 *8*) E2 $I^{(1)}$*=84.4*, $I^{(2)}$*=86.0*, ħω*=0.427*

C **5171.0+x** *3*, (38$^+$), 9.3 fs γ_{4295+x}***876.4*** *1* (†$_\gamma$1.08 *11*) E2 $I^{(1)}$*=84.5*, $I^{(2)}$*=85.5*, ħω*=0.450*

C **6094.2+x** *3*, (40$^+$), 7.1 fs γ_{5171+x}***923.2*** *1* (†$_\gamma$1.04 *10*) E2 $I^{(1)}$*=84.5*, $I^{(2)}$*=85.1*, ħω*=0.473*

C **7064.4+x** *3*, (42$^+$), 5.5 fs γ_{6094+x}***970.2*** *1* (†$_\gamma$1.00 *11*) E2 $I^{(1)}$*=84.5*, $I^{(2)}$*=84.7*, ħω*=0.497*

C **8081.8+x** *3*, (44$^+$), 4.4 fs γ_{7064+x}***1017.4*** *1* (†$_\gamma$0.98 *12*) E2 $I^{(1)}$*=84.5*, $I^{(2)}$*=84.2*, ħω*=0.521*

C **9146.7+x** *3*, (46$^+$), 3.5 fs γ_{8082+x}***1064.9*** *1* (†$_\gamma$0.98 *8*) E2 $I^{(1)}$*=84.5*, $I^{(2)}$*=83.7*, ħω*=0.544*

C **10259.4+x** *3*, (48$^+$), 2.8 fs γ_{9147+x}***1112.7*** *1* (†$_\gamma$0.90 *10*) E2

$I^{(1)}$=84.5, $I^{(2)}$=83.7, ħω=0.568

C **11419.9+x** 4, (50+), 2.3 fs
$\gamma_{10259+x}$ **1160.5** 1 (†γ0.87 6) E2
$I^{(1)}$=84.4, $I^{(2)}$=83.2, ħω=0.592

C **12628.5+x** 4, (52+), 1.8 fs
$\gamma_{11420+x}$ **1208.6** 1 (†γ0.89 12) E2
$I^{(1)}$=84.4, $I^{(2)}$=83.3, ħω=0.616

C **13885.1+x** 4, (54+), 1.5 fs
$\gamma_{12629+x}$ **1256.6** 1 (†γ0.75 10) E2
$I^{(1)}$=84.3, $I^{(2)}$=83.0, ħω=0.640

C **15189.9+x** 4, (56+), 1.2 fs
$\gamma_{13885+x}$ **1304.8** 1 (†γ0.62 7) E2
$I^{(1)}$=84.3, $I^{(2)}$=83.2, ħω=0.664

C **16542.8+x** 4, (58+), 1.0 fs
$\gamma_{15190+x}$ **1352.9** 1 (†γ0.49 8) E2
$I^{(1)}$=84.2, $I^{(2)}$=82.6, ħω=0.689

C **17944.1+x** 4, (60+), 0.90 fs
$\gamma_{16543+x}$ **1401.3** 1 (†γ0.30 7) E2
$I^{(1)}$=84.2, $I^{(2)}$=82.8, ħω=0.713

C **19393.7+x** 5, (62+), 0.69 fs
$\gamma_{17944+x}$ **1449.6** 2 (†γ0.16 6) E2
$I^{(1)}$=84.1, $I^{(2)}$=83.0, ħω=0.737

C **20891.5+x** 6, (64+) $\gamma_{19394+x}$ **1497.8** 3
$I^{(1)}$=84.1, $I^{(2)}$=83.7, ħω=0.761

C **22437.1+x** 7, (66+) $\gamma_{20892+x}$ **1545.6** 5

D **y**, (34)

D **825.9+y** 10, (36) γ_y **825.9** 10 $I^{(1)}$=85.6, $I^{(2)}$=135.6, ħω=0.420

D **1681.3+y** 10, (38) γ_{826+y} **855.4** 2
$I^{(1)}$=86.8, $I^{(2)}$=100.5, ħω=0.438

D **2576.5+y** 10, (40) γ_{1681+y} **895.2** 2
$I^{(1)}$=87.6, $I^{(2)}$=108.1, ħω=0.457

D **3508.7+y** 11, (42) γ_{2577+y} **932.2** 2
$I^{(1)}$=88.3, $I^{(2)}$=106.1, ħω=0.476

D **4478.6+y** 12, (44) γ_{3509+y} **969.9** 5
$I^{(1)}$=89.0, $I^{(2)}$=103.6, ħω=0.495

D **5487.1+y** 13, (46) γ_{4479+y} **1008.5** 5
$I^{(1)}$=89.4, $I^{(2)}$=98.3, ħω=0.514

D **6536.3+y** 13, (48) γ_{5487+y} **1049.2** 2
$I^{(1)}$=89.6, $I^{(2)}$=92.2, ħω=0.535

D **7628.9+y** 13, (50) γ_{6536+y} **1092.6** 2
$I^{(1)}$=89.7, $I^{(2)}$=88.9, ħω=0.558

D **8766.5+y** 13, (52) γ_{7629+y} **1137.6** 2
$I^{(1)}$=89.6, $I^{(2)}$=87.3, ħω=0.580

D **9949.9+y** 13, (54) γ_{8767+y} **1183.4** 2
$I^{(1)}$=89.5, $I^{(2)}$=84.7, ħω=0.603

D **11180.5+y** 13, (56) γ_{9950+y} **1230.6** 2
$I^{(1)}$=89.3, $I^{(2)}$=84.9, ħω=0.627

D **12458.2+y** 14, (58) $\gamma_{11181+y}$ **1277.7** 2
$I^{(1)}$=89.1, $I^{(2)}$=80.5, ħω=0.651

D **13785.6+y** 15, (60) $\gamma_{12458+y}$ **1327.4** 5
$I^{(1)}$=88.7, $I^{(2)}$=80.5, ħω=0.676

D **15162.7+y** 18, (62) $\gamma_{13786+y}$ **1377.1** 10
$I^{(1)}$=88.5, $I^{(2)}$=86.0, ħω=0.700

D **16586.3+y** 20, (64) $\gamma_{15163+y}$ **1423.6** 10
$I^{(1)}$=88.3, $I^{(2)}$=74.8, ħω=0.725

D **18063.4+y** 23, (66) $\gamma_{16586+y}$ **1477.1** 10

E **z**, (36)

E **793.0+z** 2, (38) γ_z **793.0** 2 $I^{(1)}$=93.1, $I^{(2)}$=85.7, ħω=0.408

E **1632.7+z** 3, (40) γ_{793+z} **839.7** 2 $I^{(1)}$=92.4, $I^{(2)}$=77.7, ħω=0.433

E **2523.9+z** 3, (42) γ_{1633+z} **891.2** 2
$I^{(1)}$=91.5, $I^{(2)}$=74.6, ħω=0.459

E **3468.7+z** 4, (44) γ_{2524+z} **944.8** 2
$I^{(1)}$=90.6, $I^{(2)}$=74.9, ħω=0.486

E **4466.9+z** 4, (46) γ_{3469+z} **998.2** 2
$I^{(1)}$=89.7, $I^{(2)}$=73.8, ħω=0.513

E **5519.3+z** 5, (48) γ_{4467+z} **1052.4** 2
$I^{(1)}$=89.0, $I^{(2)}$=76.2, ħω=0.539

E **6624.2+z** 5, (50) γ_{5519+z} **1104.9** 2
$I^{(1)}$=88.4, $I^{(2)}$=76.9, ħω=0.565

E **7781.1+z** 6, (52) γ_{6624+z} **1156.9** 2
$I^{(1)}$=88.0, $I^{(2)}$=78.4, ħω=0.591

E **8989.0+z** 6, (54) γ_{7781+z} **1207.9** 2
$I^{(1)}$=87.5, $I^{(2)}$=76.2, ħω=0.617

E **10249.4+z** 6, (56) γ_{8989+z} **1260.4** 2
$I^{(1)}$=87.0, $I^{(2)}$=74.9, ħω=0.644

E **11563.2+z** 7, (58) $\gamma_{10249+z}$ **1313.8** 2
$I^{(1)}$=86.5, $I^{(2)}$=73.0, ħω=0.671

E **12931.8+z** 7, (60) $\gamma_{11563+z}$ **1368.6** 2
$I^{(1)}$=85.9, $I^{(2)}$=69.9, ħω=0.699

E **14357.6+z** 7, (62) $\gamma_{12932+z}$ **1425.8** 2
$I^{(1)}$=85.3, $I^{(2)}$=70.3, ħω=0.727

E **15840.3+z** 7, (64) $\gamma_{14358+z}$ **1482.7** 2
$I^{(1)}$=84.6, $I^{(2)}$=65.1, ħω=0.757

E **17384.4+z** 8, (66) $\gamma_{15840+z}$ **1544.1** 2
$I^{(1)}$=83.8, $I^{(2)}$=66.0, ħω=0.787

E **18989.1+z** 8, (68) $\gamma_{17384+z}$ **1604.7** 2

F **u**, (27−)

F **669.6+u** 5, (29−) γ_0 **669.6** 5 $I^{(1)}$=83.4, $I^{(2)}$=77.8, ħω=0.348

F **1390.6+u** 5, (31−) γ_{670+u} **721.0** 2
$I^{(1)}$=83.0, $I^{(2)}$=77.2, ħω=0.373

F **2163.4+u** 6, (33−) γ_{1391+u} **772.8** 2
$I^{(1)}$=82.6, $I^{(2)}$=76.6, ħω=0.399

F **2988.4+u** 6, (35−) γ_{2163+u} **825.0** 2
$I^{(1)}$=82.3, $I^{(2)}$=77.2, ħω=0.425

F **3865.2+u** 6, (37−) γ_{2988+u} **876.8** 2
$I^{(1)}$=82.0, $I^{(2)}$=76.6, ħω=0.451

F **4794.2+u** 7, (39−) γ_{3865+u} **929.0** 2
$I^{(1)}$=81.8, $I^{(2)}$=80.5, ħω=0.477

F **5772.9+u** 7, (41−) γ_{4794+u} **978.7** 2
$I^{(1)}$=81.7, $I^{(2)}$=78.3, ħω=0.502

F **6802.7+u** 7, (43−) γ_{5773+u} **1029.8** 2
$I^{(1)}$=81.5, $I^{(2)}$=78.4, ħω=0.528

F **7883.5+u** *8*, (45⁻) γ_{6803+u} ***1080.8*** *2*
$I^{(1)}$=*81.4*, $I^{(2)}$=*80.3*, ħω=*0.553*

F **9014.1+u** *8*, (47⁻) γ_{7884+u} ***1130.6*** *2*
$I^{(1)}$=*81.4*, $I^{(2)}$=*80.5*, ħω=*0.578*

F **10194.4+u** *8*, (49⁻) γ_{9014+u} ***1180.3*** *2*
$I^{(1)}$=*81.4*, $I^{(2)}$=*83.9*, ħω=*0.602*

F **11422.4+u** *9*, (51⁻) $\gamma_{10194+u}$ ***1228.0*** *3*
$I^{(1)}$=*81.3*, $I^{(2)}$=*75.5*, ħω=*0.627*

F **12703.4+u** *10*, (53⁻) $\gamma_{11422+u}$ ***1281.0*** *5*
$I^{(1)}$=*81.3*, $I^{(2)}$=*85.7*, ħω=*0.652*

F **14031.1+u** *11*, (55⁻) $\gamma_{12703+u}$ ***1327.7*** *5*
$I^{(1)}$=*81.4*, $I^{(2)}$=*83.0*, ħω=*0.676*

F **15407.0+u** *15*, (57⁻) $\gamma_{14031+u}$ ***1375.9*** *10*

G **v**, (26⁻)

G **642.1+v** *5*, (28⁻) γ_0 ***642.1*** *5* $I^{(1)}$=*83.8*, $I^{(2)}$=*75.8*, ħω=*0.334*

G **1337.0+v** *6*, (30⁻) γ_{642+v} ***694.9*** *4*
$I^{(1)}$=*83.2*, $I^{(2)}$=*76.8*, ħω=*0.360*

G **2084.0+v** *7*, (32⁻) γ_{1337+v} ***747.0*** *2*
$I^{(1)}$=*82.8*, $I^{(2)}$=*77.2*, ħω=*0.386*

G **2882.8+v** *7*, (34⁻) γ_{2084+v} ***798.8*** *2*
$I^{(1)}$=*82.4*, $I^{(2)}$=*76.5*, ħω=*0.412*

G **3733.9+v** *7*, (36⁻) γ_{2883+v} ***851.1*** *2*
$I^{(1)}$=*82.2*, $I^{(2)}$=*79.7*, ħω=*0.438*

G **4635.2+v** *8*, (38⁻) γ_{3734+v} ***901.3*** *2*
$I^{(1)}$=*81.9*, $I^{(2)}$=*76.2*, ħω=*0.464*

G **5589.0+v** *8*, (40⁻) γ_{4635+v} ***953.8*** *2*
$I^{(1)}$=*81.7*, $I^{(2)}$=*78.0*, ħω=*0.490*

G **6594.1+v** *9*, (42⁻) γ_{5589+v} ***1005.1*** *5*
$I^{(1)}$=*81.5*, $I^{(2)}$=*80.2*, ħω=*0.515*

G **7649.1+v** *9*, (44⁻) γ_{6594+v} ***1055.0*** *2*
$I^{(1)}$=*81.5*, $I^{(2)}$=*80.0*, ħω=*0.540*

G **8754.1+v** *10*, (46⁻) γ_{7649+v} ***1105.0*** *2*
$I^{(1)}$=*81.4*, $I^{(2)}$=*78.7*, ħω=*0.565*

G **9909.9+v** *11*, (48⁻) γ_{8754+v} ***1155.8*** *5*
$I^{(1)}$=*81.3*, $I^{(2)}$=*80.0*, ħω=*0.590*

G **11115.7+v** *11*, (50⁻) γ_{9910+v} ***1205.8*** *2*
$I^{(1)}$=*81.3*, $I^{(2)}$=*83.3*, ħω=*0.615*

G **12369.5+v** *11*, (52⁻) $\gamma_{11116+v}$ ***1253.8*** *3*
$I^{(1)}$=*81.3*, $I^{(2)}$=*79.4*, ħω=*0.639*

G **13673.7+v** *13*, (54⁻) $\gamma_{12370+v}$ ***1304.2*** *5*

H **w**, (32⁻)

H **761.5+w** *2*, (34⁻) γ_0 ***761.5*** *2* $I^{(1)}$=*86.8*, $I^{(2)}$=*93.0*, ħω=*0.392*

H **1566.0+w** *3*, (36⁻) γ_{762+w} ***804.5*** *2*
$I^{(1)}$=*87.1*, $I^{(2)}$=*88.5*, ħω=*0.414*

H **2415.7+w** *3*, (38⁻) γ_{1566+w} ***849.7*** *2*
$I^{(1)}$=*87.1*, $I^{(2)}$=*88.5*, ħω=*0.436*

H **3310.6+w** *4*, (40⁻) γ_{2416+w} ***894.9*** *2*
$I^{(1)}$=*87.1*, $I^{(2)}$=*86.4*, ħω=*0.459*

H **4251.8+w** *4*, (42⁻) γ_{3311+w} ***941.2*** *2*
$I^{(1)}$=*87.2*, $I^{(2)}$=*89.1*, ħω=*0.482*

H **5237.9+w** *5*, (44⁻) γ_{4252+w} ***986.1*** *2*
$I^{(1)}$=*87.2*, $I^{(2)}$=*88.5*, ħω=*0.504*

H **6269.2+w** *5*, (46⁻) γ_{5238+w} ***1031.3*** *2*
$I^{(1)}$=*87.3*, $I^{(2)}$=*87.0*, ħω=*0.527*

H **7346.5+w** *6*, (48⁻) γ_{6269+w} ***1077.3*** *2*
$I^{(1)}$=*87.3*, $I^{(2)}$=*88.1*, ħω=*0.550*

H **8469.2+w** *6*, (50⁻) γ_{7347+w} ***1122.7*** *2*
$I^{(1)}$=*87.3*, $I^{(2)}$=*90.1*, ħω=*0.572*

H **9636.3+w** *6*, (52⁻) γ_{8469+w} ***1167.1*** *2*
$I^{(1)}$=*87.4*, $I^{(2)}$=*89.9*, ħω=*0.595*

H **10847.9+w** *7*, (54⁻) γ_{9636+w} ***1211.6*** *2*
$I^{(1)}$=*87.5*, $I^{(2)}$=*88.7*, ħω=*0.617*

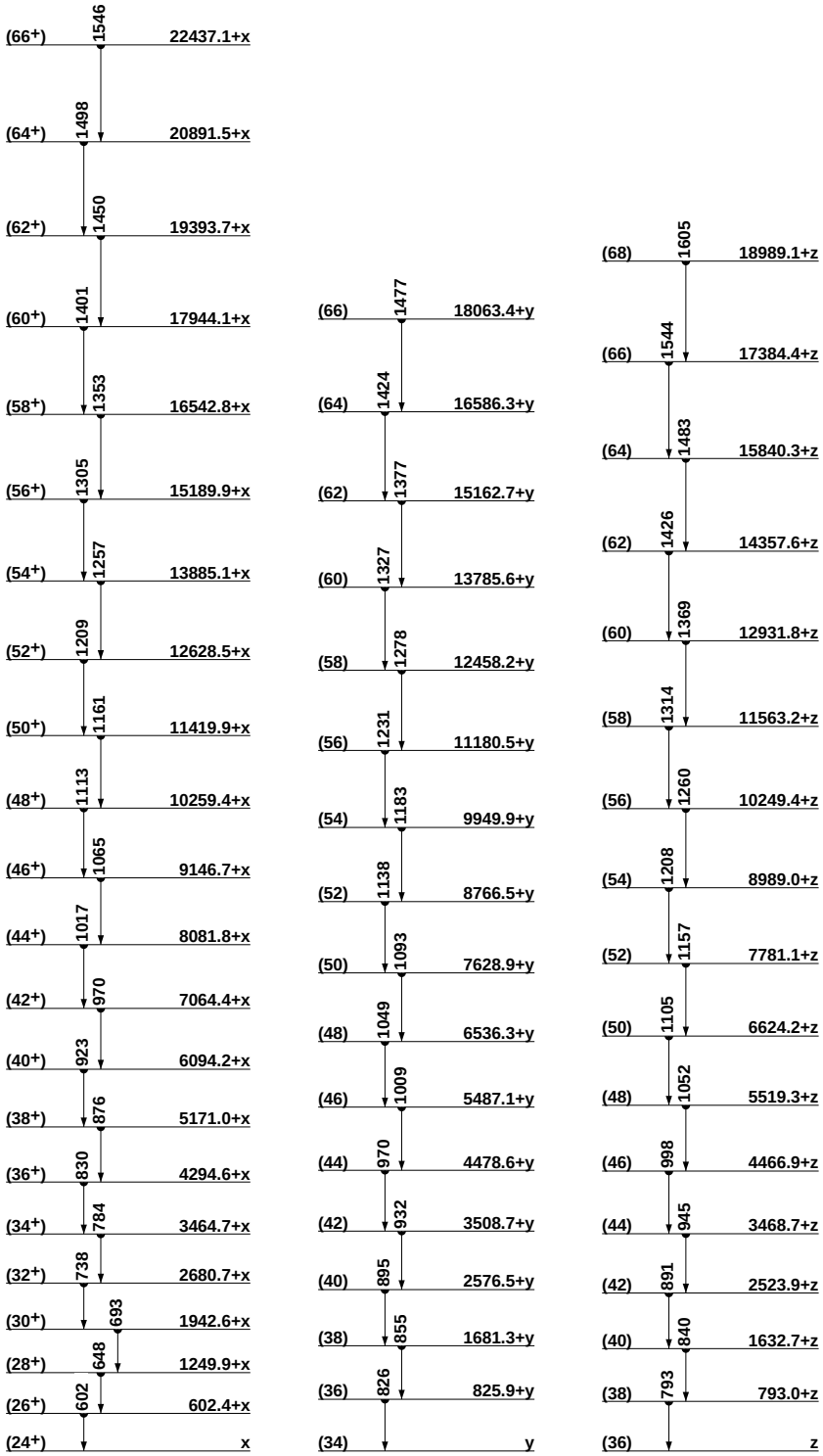
H **12104.6+w** *7*, (56⁻) $\gamma_{10848+w}$ ***1256.7*** *2*
$I^{(1)}$=*87.6*, $I^{(2)}$=*92.6*, ħω=*0.639*

H **13404.5+w** *7*, (58⁻) $\gamma_{12105+w}$ ***1299.9*** *2*
$I^{(1)}$=*87.7*, $I^{(2)}$=*90.1*, ħω=*0.661*

H **14748.8+w** *7*, (60⁻) $\gamma_{13405+w}$ ***1344.3*** *2*
$I^{(1)}$=*87.8*, $I^{(2)}$=*90.7*, ħω=*0.683*

H **16137.2+w** *9*, (62⁻) $\gamma_{14749+w}$ ***1388.4*** *5*
$I^{(1)}$=*87.9*, $I^{(2)}$=*88.7*, ħω=*0.705*

H **17570.7+w** *13*, (64⁻) $\gamma_{16137+w}$ ***1433.5*** *10*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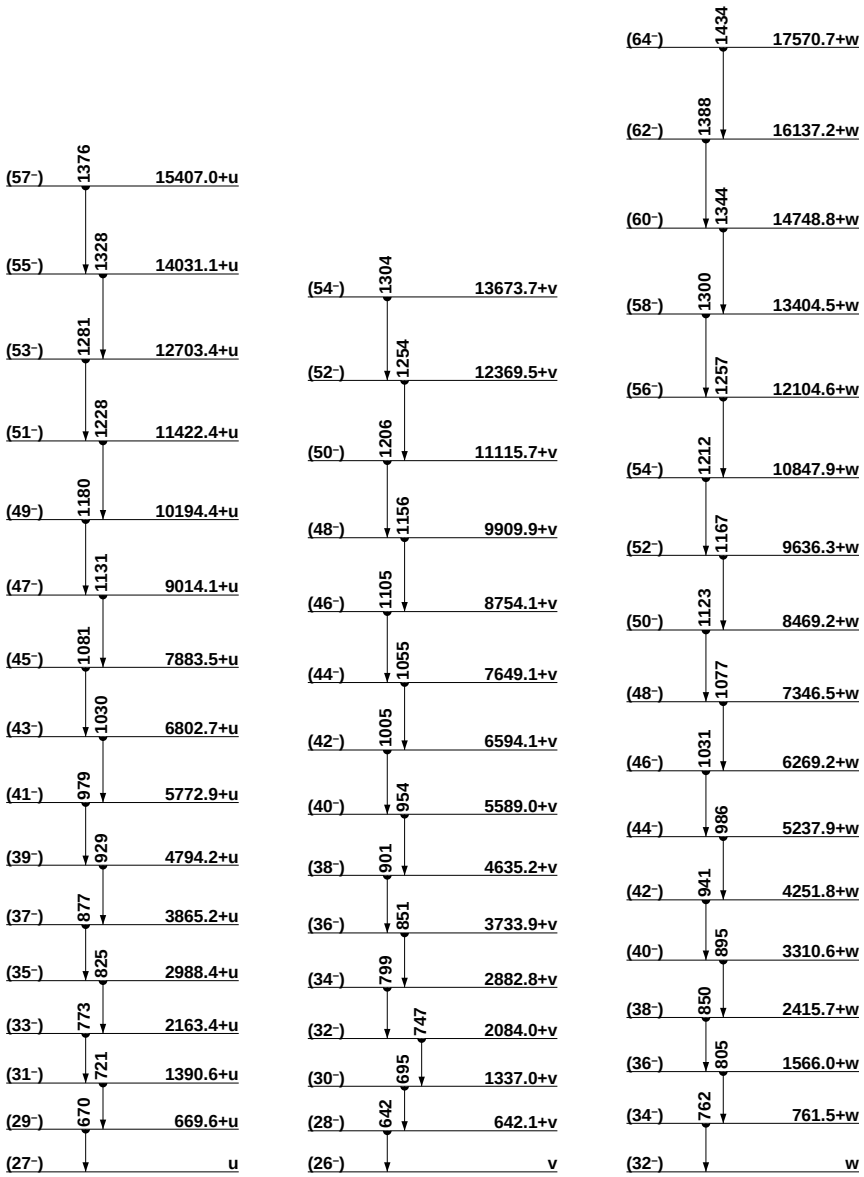
(64+) 1498 20891.5+x
(62+) 1450 19393.7+x
(60+) 1401 17944.1+x
(58+) 1353 16542.8+x
(56+) 1305 15189.9+x
(54+) 1257 13885.1+x
(52+) 1209 12628.5+x
(50+) 1161 11419.9+x
(48+) 1113 10259.4+x
(46+) 1065 9146.7+x
(44+) 1017 8081.8+x
(42+) 970 7064.4+x
(40+) 923 6094.2+x
(38+) 876 5171.0+x
(36+) 830 4294.6+x
(34+) 784 3464.7+x
(32+) 738 2680.7+x
(30+) 693 1942.6+x
(28+) 648 1249.9+x
(26+) 602 602.4+x
(24+) x
SD-1 band
(86Tw01,91Be12,94Da20)
(66) 1477 18063.4+y
(64) 1424 16586.3+y
(62) 1377 15162.7+y
(60) 1327 13785.6+y
(58) 1278 12458.2+y
(56) 1231 11180.5+y
(54) 1183 9949.9+y
(52) 1138 8766.5+y
(50) 1093 7628.9+y
(48) 1049 6536.3+y
(46) 1009 5487.1+y
(44) 970 4478.6+y
(42) 932 3508.7+y
(40) 895 2576.5+y
(38) 855 1681.3+y
(36) 826 825.9+y
(34) y
SD-2 band
(94Da20)
(68) 1605 18989.1+z
(66) 1544 17384.4+z
(64) 1483 15840.3+z
(62) 1426 14357.6+z
(60) 1369 12931.8+z
(58) 1314 11563.2+z
(56) 1260 10249.4+z
(54) 1208 8989.0+z
(52) 1157 7781.1+z
(50) 1105 6624.2+z
(48) 1052 5519.3+z
(46) 998 4466.9+z
(44) 945 3468.7+z
(42) 891 2523.9+z
(40) 840 1632.7+z
(38) 793 793.0+z
(36) z
SD-3 band
(94Da20)

$^{152}_{66}$Dy


(57⁻) 15407.0+u
1376
(55⁻) 14031.1+u
1328
(53⁻) 12703.4+u
1281
(51⁻) 11422.4+u
1228
(49⁻) 10194.4+u
1180
(47⁻) 9014.1+u
1131
(45⁻) 7883.5+u
1081
(43⁻) 6802.7+u
1030
(41⁻) 5772.9+u
979
(39⁻) 4794.2+u
929
(37⁻) 3865.2+u
877
(35⁻) 2988.4+u
825
(33⁻) 2163.4+u
773
(31⁻) 1390.6+u
721
(29⁻) 669.6+u
670
(27⁻) u
SD-4 band
(94Da20)
(54⁻) 13673.7+v
1304
(52⁻) 12369.5+v
1254
(50⁻) 11115.7+v
1206
(48⁻) 9909.9+v
1156
(46⁻) 8754.1+v
1105
(44⁻) 7649.1+v
1055
(42⁻) 6594.1+v
1005
(40⁻) 5589.0+v
954
(38⁻) 4635.2+v
901
(36⁻) 3733.9+v
851
(34⁻) 2882.8+v
799
(32⁻) 2084.0+v
747
(30⁻) 1337.0+v
695
(28⁻) 642.1+v
642
(26⁻) v
SD-5 band
(94Da20)
(64⁻) 17570.7+w
1434
(62⁻) 16137.2+w
1388
(60⁻) 14748.8+w
1344
(58⁻) 13404.5+w
1300
(56⁻) 12104.6+w
1257
(54⁻) 10847.9+w
1212
(52⁻) 9636.3+w
1167
(50⁻) 8469.2+w
1123
(48⁻) 7346.5+w
1077
(46⁻) 6269.2+w
1031
(44⁻) 5237.9+w
986
(42⁻) 4251.8+w
941
(40⁻) 3310.6+w
895
(38⁻) 2415.7+w
850
(36⁻) 1566.0+w
805
(34⁻) 761.5+w
762
(32⁻) w
SD-6 band
(94Da20)

$^{152}_{66}$Dy