$^{154}_{68}$Er

Δ: –62618 *6* **S_n:** 10229 *12* **S_p:** 4883 *7*
Q_{EC}: 2032 *10* **Q_α:** 4280 *3*

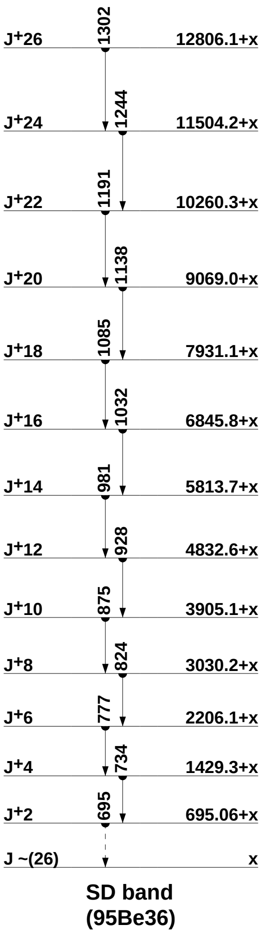
Nuclear Bands

- *A* Band Structure
- *B* Band Structure
- *C* SD band (95Be36)

Levels and γ-ray branchings:

A **0**, 0^+, 3.73 *9* m, %α=0.47 *13*, %EC+%β^+=99.53 *13*
A **560.0**, 2^+ γ_{0}***560.0*** (†$_\gamma$100) E2
A **1162.3**, 4^+ γ_{560}***601.3*** (†$_\gamma$100) E2
A **1786**, 6^+ γ_{1162}***625*** (†$_\gamma$100) E2
B **1896**, 5^- γ_{1162}***735*** (†$_\gamma$100) D
A **2328**, 8^+ γ_{1786}***542.0*** (†$_\gamma$100) E2
B **2461**, 7^- γ_{1896}***565.0*** (†$_\gamma$16) γ_{1786}***674.5*** (†$_\gamma$100) D
2582, 8^+ γ_{2328}***253.8*** (†$_\gamma$33) D γ_{1786}***795.9*** (†$_\gamma$100) E2
B **3014**, 9^- γ_{2582}***432.2*** (†$_\gamma$100) γ_{2461}***553.8*** (†$_\gamma$85) γ_{2328}***686.3*** (†$_\gamma$65)
A **3016**, 10^+ γ_{2328}***687.8*** (†$_\gamma$100)
B **3025**, 11^-, 39 *4* ns, μ=+0.169 *13* γ_{3016}***9*** γ_{3014}***11***
A **3655**, 12^+ γ_{3016}***638.5*** (†$_\gamma$100) E2
B **3830**, 13^- γ_{3025}***805.0*** (†$_\gamma$100) E2
A **4274**, 14^+ γ_{3655}***619.5*** (†$_\gamma$100) E2
B **4499**, 15^- γ_{3830}***668.8*** (†$_\gamma$100) E2
4531, (15^+) γ_{4274}***256.8*** (†$_\gamma$100) D
A **4678**, 16^+ γ_{4531}***146.7*** (†$_\gamma$33) D γ_{4274}***403.5*** (†$_\gamma$100) E2
B **5006**, 17^- γ_{4499}***506.9*** (†$_\gamma$100) E2
A **5328**, 18^+ γ_{4678}***650.8*** (†$_\gamma$100) E2
B **5462**, 19^- γ_{5328}***134.1*** (†$_\gamma$1.8) D γ_{5006}***455.6*** (†$_\gamma$100) E2
A **6063**, 20^+ γ_{5328}***735*** (†$_\gamma$100) E2
6087, (20^-) γ_{5462}***625*** (†$_\gamma$100) D
B **6289**, 21^- γ_{6087}***202.2*** (†$_\gamma$69) M1+E2 γ_{5462}***827.5*** (†$_\gamma$100) E2
6575, (21^-) γ_{5462}***1113.7*** (†$_\gamma$100) E2
A **6745**, 22^+ γ_{6063}***682.0*** (†$_\gamma$100) D
B **7015**, 23^- γ_{6745}***270.7*** (†$_\gamma$2.1) D γ_{6575}***441.0*** (†$_\gamma$5) E2 γ_{6289}***726.7*** (†$_\gamma$100) E2
B **7334**, 25^- γ_{7015}***318.3*** (†$_\gamma$100) E2
8009, $(26)^-$ γ_{7334}***675.5*** (†$_\gamma$100) M1+E2
B **8106**, 27^- γ_{8009}***97.0*** (†$_\gamma$27) D γ_{7334}***772.6*** (†$_\gamma$100) E2
8310, (26^+) γ_{7334}***976.3*** (†$_\gamma$100) D
8658, (27^+) γ_{8310}***347.4*** (†$_\gamma$88) D γ_{8009}***647.8*** (†$_\gamma$100) D
8669, $(28)^+$ γ_{8310}***359.0*** (†$_\gamma$2) γ_{8106}***562.9*** (†$_\gamma$100) E1
9294, (29^+) γ_{8669}***625*** (†$_\gamma$100) D
B **9475**, 29^- γ_{8106}***1368.8*** (†$_\gamma$100) E2
9480, (29^+) γ_{8669}***811.4*** (†$_\gamma$100) D
9589, $(30)^+$ γ_{9480}***108.5*** (†$_\gamma$12) D γ_{9475}***113.8*** (†$_\gamma$2) γ_{9294}***294.5*** (†$_\gamma$100) M1+E2 γ_{8669}***919.7*** (†$_\gamma$90) E2
9843, (30^+) γ_{9480}***362.7*** (†$_\gamma$100)
B **10108**, 31^- γ_{9843}***265.0*** (†$_\gamma$42) D γ_{9589}***518.8*** (†$_\gamma$38) D γ_{9475}***632.8*** (†$_\gamma$100) E2
10150, $(32)^+$ γ_{9843}***307.1*** (†$_\gamma$14) E2 γ_{9589}***561.1*** (†$_\gamma$100) E2
B **10429**, 33^- γ_{10150}***279.2*** (†$_\gamma$100) D γ_{10108}***321.3*** (†$_\gamma$24) E2
11354, (34) γ_{10429}***924.5*** (†$_\gamma$100) D
11504(?), (35) γ_{11354}***150.0*** (†$_\gamma$100) D
11621, (34^+) γ_{10429}***1192.3*** (†$_\gamma$100) D γ_{10150}***1471*** (†$_\gamma$30)
11660, (34^+) γ_{10429}***1231.5*** (†$_\gamma$100) D
11889, (35) γ_{11621}***267.6*** (†$_\gamma$100) D
11897, (36^+) γ_{11660}***236.2*** (†$_\gamma$11) E2 γ_{11621}***275.2*** (†$_\gamma$5) γ_{11504}***393.6*** (†$_\gamma$100) M1+E2
13209, (37) γ_{11897}***1313.0*** (†$_\gamma$100) D
13500, (38) γ_{11897}***1603.5*** (†$_\gamma$100) E2
13950(?), (40) γ_{13500}***450.1*** (†$_\gamma$100)
14000, (38) γ_{13500}***500.0*** (†$_\gamma$100) D γ_{11897}***2103.5*** (†$_\gamma$38) E2
14269, (39) γ_{14000}***268.7*** (†$_\gamma$100.5) D
14382, (39) γ_{13209}***1172.5*** (†$_\gamma$100) E2
14676, (39) γ_{13209}***1466.3*** (†$_\gamma$100) E2
14921, (41) γ_{14269}***652.5*** (†$_\gamma$100) E2
16030, (42) γ_{14921}***1108.5*** (†$_\gamma$100) D
C **x**, J≈(26)
C **695.06+x**, J+2 γ_{x}***695.06*** *25* (?) (†$_\gamma$0.21 *5*) *$I^{(2)}$=102.0, ħω=0.357*
C **1429.3+x**, J+4 γ_{695+x}***734.26*** *23* (†$_\gamma$1.00 *8*) (E2) *$I^{(2)}$=94.2, ħω=0.378*
C **2206.1+x**, J+6 γ_{1429+x}***776.73*** *22* (†$_\gamma$0.98 *8*) (E2) *$I^{(2)}$=84.5, ħω=0.400*
C **3030.2+x**, J+8 γ_{2206+x}***824.09*** *21* (†$_\gamma$0.96 *9*) *$I^{(2)}$=78.6, ħω=0.425*
C **3905.1+x**, J+10 γ_{3030+x}***874.95*** *23* (†$_\gamma$0.68 *7*) *$I^{(2)}$=76.1, ħω=0.451*
C **4832.6+x**, J+12 γ_{3905+x}***927.51*** *26* (†$_\gamma$0.76 *7*) (E2) *$I^{(2)}$=74.7, ħω=0.477*
C **5813.7+x**, J+14 γ_{4833+x}***981.04*** *44* (†$_\gamma$0.73 *7*) (E2) *$I^{(2)}$=78.3, ħω=0.503*
C **6845.8+x**, J+16 γ_{5814+x}***1032.14*** *20* (†$_\gamma$0.71 *9*) (E2) *$I^{(2)}$=75.3, ħω=0.529*
C **7931.1+x**, J+18 γ_{6846+x}***1085.24*** *22* (†$_\gamma$0.71 *8*) (E2) *$I^{(2)}$=76.0, ħω=0.556*

C **9069.0+x**, J+20 γ_{7931+x}***1137.88*** *30*
(†$_\gamma$0.63 *7*) (E2) $I^{(2)}$*=74.8, ħω=0.582*
C **10260.3+x**, J+22 γ_{9069+x}***1191.39*** *28*
(†$_\gamma$0.63 *7*) (E2) $I^{(2)}$*=76.3, ħω=0.609*
C **11504.2+x**, J+24 $\gamma_{10260+x}$***1243.84*** *34*
(†$_\gamma$0.41 *7*) $I^{(2)}$*=68.9, ħω=0.636*
C **12806.1+x**, J+26 $\gamma_{11504+x}$***1301.93*** *51*
(†$_\gamma$0.37 *6*)



J+26
12806.1+x
1302
J+24
11504.2+x
1244
J+22
10260.3+x
1191
J+20
9069.0+x
1138
J+18
7931.1+x
1085
J+16
6845.8+x
1032
J+14
5813.7+x
981
J+12
4832.6+x
928
J+10
3905.1+x
875
J+8
3030.2+x
824
J+6
2206.1+x
777
J+4
1429.3+x
734
J+2
695.06+x
695
J ~(26)
x
SD band
(95Be36)

$^{154}_{68}$Er