$^{133}_{58}$Ce

Δ: (–82390) **S_n:** (8000) **S_p:** (5950) **Q_{EC}:** (2900) **Q_α:** (250)

Nuclear Bands

A 1/2[400]
B $\nu h_{11/2}\pi h_{11/2}\pi g_{7/2}$
C Band Structure
D Band Structure
E $\nu i_{13/2}\pi h_{11/2}{}^2$
F 11/2[514]
G $\nu h_{11/2}\pi h_{11/2}{}^2$
H SD-1 band (95Ha34,95Ha28,96Se04)
I SD-2 band (95Ha34,95Ha28,96Se04)
J SD-3 band (95Ha34)

Levels and γ-ray branchings:

A **0**, $1/2^+$, 97 *4* m, %EC+%β^+=100
F **37.1** *8*, $9/2^-$, 4.9 *4* h, %EC+%β^+=100
A **134.20** *9*, $3/2^+$ γ_0***134.3*** *2* (†$_\gamma$100) M1
F **207.1** *7*, $11/2^-$ γ_{37}***170.0*** *2* (†$_\gamma$100)
241.99 *9*, $(5/2^+)$ γ_{134}***107.7*** *2* (†$_\gamma$0.95 *9*) γ_0***241.9*** *2* (†$_\gamma$100 *10*) E2
315.69 *10*, $(3/2)^+$ γ_{242}***73.6*** *2* (†$_\gamma$2.0 *2*) M1 γ_{134}***181.3*** *2* (†$_\gamma$4.2 *4*) M1 γ_0***315.6*** *2* (†$_\gamma$100 *10*) M1
A **317.99** *9*, $5/2^+$ γ_{242}***76.0*** *2* (†$_\gamma$11.4 *10*) γ_{134}***183.8*** *2* (†$_\gamma$100 *9*) M1 γ_0***318.0*** *2* (†$_\gamma$77 *7*)
465.18 *10*, $(1/2)^+$ γ_{318}***147.2*** *2* (†$_\gamma$3.2 *3*) γ_{316}***149.6*** *2* (†$_\gamma$10.3 *9*) γ_{242}***223.2*** *2* (†$_\gamma$8.7 *8*) E2 γ_{134}***330.9*** *2* (†$_\gamma$82 *8*) M1 γ_0***465.2*** *2* (†$_\gamma$100 *10*) M1(+E2)
496.75 *11*, $1/2^+,3/2^+,5/2^+$ γ_{318}***178.8*** *2* (†$_\gamma$5.1 *7*) γ_{242}***254.8*** *2* (†$_\gamma$5.9 *7*) γ_{134}***362.5*** *2* (†$_\gamma$100 *10*) M1 γ_0***496.4*** *2* (†$_\gamma$54 *5*)
A **570.5** *4*, $7/2^+$ γ_{318}***253.0*** *5* (†$_\gamma$90 *8*) γ_{134}***436.1*** *5* (†$_\gamma$100 *10*)
F **591.8** *7*, $13/2^-$ γ_{207}***384.7*** *2* (†$_\gamma$100 *1*) (M1+E2) γ_{37}***554.9*** *6* (†$_\gamma$37 *4*) E2
621.18 *10*, $(3/2,5/2)^-$ γ_{497}***124.4*** *2* (†$_\gamma$2.5 *13*) γ_{318}***303.0*** *2* (†$_\gamma$100 *10*) E1 γ_{242}***379.3*** *2* (†$_\gamma$29 *3*) γ_{134}***487.1*** *2* (†$_\gamma$26 *3*) γ_0***621.4*** *2* (†$_\gamma$16.3 *13*)
656.64 *12*, $(1/2^+,3/2,5/2^+)$ γ_{316}***340.9*** *2* (†$_\gamma$44 *6*) γ_{242}***414.5*** *2* (†$_\gamma$56 *6*) γ_{134}***522.6*** *2* (†$_\gamma$100 *11*) γ_0***656.7*** *2* (†$_\gamma$72 *6*)
779.33 *10*, $(1/2^+,3/2,5/2^+)$ γ_{621}***158.4*** *2* (†$_\gamma$5.1 *9*) γ_{465}***314.2*** *2* (†$_\gamma$38 *3*) γ_{318}***461.2*** *2* (†$_\gamma$21 *2*) γ_{316}***463.4*** *2* (†$_\gamma$8.5 *8*) γ_{242}***537.3*** *2* (†$_\gamma$52 *5*) M1(+E2) γ_{134}***645.2*** *2* (†$_\gamma$100 *10*) (E2) γ_0***779.4*** *2* (†$_\gamma$22 *2*)
787.62 *17* γ_{497}***290.6*** *2* (†$_\gamma$<71) γ_{134}***653.7*** *2* (†$_\gamma$100 *14*)
A **815.6** *5*, $(9/2^+)$ γ_{571}***246*** γ_{318}***497.4*** *5* (†$_\gamma$100)
F **826.8** *7*, $15/2^-$ γ_{592}***234.9*** *5* (†$_\gamma$24.9 *3*) (M1+E2) γ_{207}***619.7*** *2* (†$_\gamma$100 *10*) E2
834.80 *15*, $(1/2,3/2,5/2^+)$ γ_{134}***700.5*** *2* (†$_\gamma$96 *8*) γ_0***834.9*** *2* (†$_\gamma$100 *8*)
902.68 *23* (?) γ_{621}***281.5*** *2* (†$_\gamma$100)
1005.56 *13*, $(1/2^+,3/2,5/2^+)$ γ_{318}***687.8*** *2* (†$_\gamma$<38) γ_{316}***689.7*** *2* (†$_\gamma$100 *10*) γ_0***1005.5*** *2* (†$_\gamma$33 *2*)
1116.18 *23* (?) γ_{621}***495.0*** *2* (†$_\gamma$100)
1200.0 *7*, $15/2^-$ γ_{592}***608.5*** *5* (†$_\gamma$100) (M1+E2)
A **1201.0** *5*, $(11/2^+)$ γ_{816}***385*** γ_{571}***630.5*** *5* (†$_\gamma$100)
1335.18 *23* γ_{621}***714.0*** *2* (†$_\gamma$100)
F **1343.2** *7*, $17/2^-$ γ_{827}***516.7*** *5* (†$_\gamma$98 *9*) (M1+E2) γ_{592}***751.3*** *7* (†$_\gamma$100 *10*) E2
A **1445.0** *6*, $13/2^+$ γ_{1200}***246*** γ_{816}***629.4*** *5* (†$_\gamma$100 *9*)
1521.01 *22* (?) γ_{134}***1386.8*** *2* (†$_\gamma$100)
1573.35 *23* γ_{497}***1076.6*** *2* (†$_\gamma$100)
F **1589.6** *7*, $19/2^-$ γ_{1343}***246.5*** *5* (†$_\gamma$100 *10*) (M1+E2) γ_{827}***762.7*** *2* (†$_\gamma$41 *4*) E2
1881.30 *16* γ_{242}***1639.3*** *2* (†$_\gamma$100 *20*) γ_{134}***1747.1*** *2* (†$_\gamma$80 *20*)
B **1897.2** *7*, $15/2^+$ γ_{1200}***697.0*** *5* (†$_\gamma$<36) γ_{592}***1305.4*** *5* (†$_\gamma$100 *9*)
A **1932.1** *6*, $(15/2^+)$ γ_{1201}***731.0*** *5* (†$_\gamma$100)
B **2096.2** *7*, $17/2^+$ γ_{1932}***164.0*** *5* (†$_\gamma$<7) γ_{1897}***198.8*** *5* (†$_\gamma$39 *4*) γ_{1445}***651.5*** *5* γ_{1200}***896.4*** *5* (†$_\gamma$17 *2*) γ_{827}***1269.3*** *5* (†$_\gamma$100 *10*) E1
F **2199.0** *8*, $21/2^-$ γ_{1590}***609.5*** *5* (†$_\gamma$100 *10*) γ_{1343}***856.0*** *5* (†$_\gamma$99 *10*)
B **2296.8** *7*, $19/2^+$ γ_{2096}***200.7*** *3* (†$_\gamma$100 *9*) (M1+E2) γ_{1897}***399.4*** *5* (†$_\gamma$<3.6) γ_{1343}***954.0*** *5* (†$_\gamma$41 *4*) E1
C **2415.5** *7*, (19/2) γ_{2096}***319.6*** *5* (†$_\gamma$<34) γ_{1897}***518.6*** *5* (†$_\gamma$<34) γ_{1343}***1071.6*** *5* (†$_\gamma$100 *2*)
B **2456.3** *7*, $21/2^+$ γ_{2297}***159.5*** *2* (†$_\gamma$100 *10*) D+Q γ_{2096}***360.0*** *5* (†$_\gamma$<3)
F **2485.5** *8*, $23/2^-$ γ_{2199}***287.0*** *5* (†$_\gamma$<6) γ_{1590}***896.0*** *5* (†$_\gamma$100 *9*)
2501.5 *11* (?) γ_{2096}***405*** (?)
C **2621.0** *8*, (21/2) γ_{2416}***205.5*** *5* (†$_\gamma$100 *10*) γ_{1590}***1031.5*** *5* (†$_\gamma$<20)
B **2645.8** *7*, $23/2^+$ γ_{2456}***189.5*** *2* (†$_\gamma$100 *10*) D+Q γ_{2297}***349.0*** *5* (†$_\gamma$<3)
G **2679.0** *8*, $23/2^-$ γ_{1590}***1089.0*** *5* (†$_\gamma$100) E2

D **2743.6** *8*, (21/2) γ_{2297}***446*** (?) γ_{1590}***1154.0*** *5* ($\dagger_\gamma$100)

C **2844.6** *9*, (23/2) γ_{2621}***223.6*** *5* ($\dagger_\gamma$100)

B **2880.8** *7*, $(25/2)^+$ γ_{2646}***235.0*** *2* ($\dagger_\gamma$100 *10*) (M1+E2) γ_{2456}***424.5*** *5* ($\dagger_\gamma$4.2 *7*)

D **2959.2** *8*, (23/2) γ_{2744}***215.5*** *5* ($\dagger_\gamma$100) γ_{2456}***503.0*** *5* ($\dagger_\gamma$52 *5*)

C **3128.1** *11*, (25/2) γ_{2845}***283.5*** *5* ($\dagger_\gamma$100)

F **3128.9** *8*, $(25/2^-)$ γ_{2486}***643*** γ_{2199}***930.0*** *5* ($\dagger_\gamma$100)

B **3175.4** *8*, $27/2^+$ γ_{2881}***294.6*** *3* ($\dagger_\gamma$100 *10*) (M1+E2) γ_{2646}***529.5*** *5* ($\dagger_\gamma$12 *1*)

G **3235.5** *13*, $(23/2^-)$ γ_{2486}***750***

D **3235.6** *8*, (25/2) γ_{2959}***276.5*** *5* ($\dagger_\gamma$100)

E **3332.6** *9*, $(25/2)^+$ γ_{2502}***831.1*** *5* ($\dagger_\gamma$53 *5*) γ_{2486}***847.1*** *5* ($\dagger_\gamma$100 *10*) E1

G **3375.6** *8*, $25/2^-$ $\gamma_{3235.5}$***140.0*** *2* ($\dagger_\gamma$55 *5*) γ_{3128}***246*** γ_{2486}***890.5*** *5* ($\dagger_\gamma$<36) γ_{2199}***1176.5*** *2* ($\dagger_\gamma$100 *10*) E2

F **3432.7** *8*, $(27/2^-)$ γ_{3129}***304.0*** *5* ($\dagger_\gamma$<8) γ_{2486}***946.9*** *5* ($\dagger_\gamma$100 *10*)

C **3433.8** *12*, (27/2) γ_{3128}***305.7*** *5* ($\dagger_\gamma$100)

G **3530.4** *8*, $27/2^-$ γ_{3376}***154.7*** *5* ($\dagger_\gamma$100 *10*) γ_{2679}***851.0*** *5* ($\dagger_\gamma$<9.6) γ_{2486}***1045.4*** *5* ($\dagger_\gamma$40 *4*) E2

B **3532.8** *8*, $29/2^+$ γ_{3175}***357.5*** *5* ($\dagger_\gamma$100 *10*) γ_{2881}***652.0*** *5* ($\dagger_\gamma$<17)

D **3571.1** *9*, (27/2) $\gamma_{3235.5}$***335.5*** *5* ($\dagger_\gamma$100)

E **3755.7** *11*, $(29/2^+)$ γ_{3333}***423.1*** *5* ($\dagger_\gamma$100 *12*)

G **3770.9** *9*, $29/2^-$ γ_{3530}***240.6*** *5* ($\dagger_\gamma$100 *11*) γ_{3433}***338.0*** *5* ($\dagger_\gamma$<6)

C **3779.2** *10*, (29/2) γ_{3433}***346.5*** *5* ($\dagger_\gamma$100)

B **3917.4** *9*, $31/2^+$ γ_{3533}***384.5*** *5* ($\dagger_\gamma$100 *10*) γ_{3175}***742.0*** *5* ($\dagger_\gamma$21 *2*)

D **3971.2** *14*, (29/2) γ_{3571}***400.1***

G **4065.8** *9*, $31/2^-$ γ_{3771}***294.9*** *5* ($\dagger_\gamma$100 *10*) γ_{3530}***535.5*** *5* ($\dagger_\gamma$10.7 *14*)

C **4211.2** *11*, (31/2) γ_{3779}***432.0*** *5* ($\dagger_\gamma$100)

E **4245.1** *12*, $(33/2^+)$ γ_{3756}***489.4*** *5* ($\dagger_\gamma$100)

B **4375.0** *9*, $33/2^+$ γ_{3917}***457.9*** *5* γ_{3533}***842.4*** *5* ($\dagger_\gamma$100)

F **4403.7** *10*, $(31/2^-)$ γ_{3433}***971.0*** *5* ($\dagger_\gamma$100)

G **4407.9** *9*, $33/2^-$ γ_{4066}***342.0*** *5* ($\dagger_\gamma$100 *10*) γ_{3771}***636.9*** *5* ($\dagger_\gamma$19.7 *17*)

G **4799.1** *9*, $35/2^-$ γ_{4408}***391.1*** *5* ($\dagger_\gamma$100 *10*) γ_{4066}***733.5*** *5* ($\dagger_\gamma$44 *40*)

B **4831.1** *9*, $35/2^+$ γ_{4375}***456.5*** *5* ($\dagger_\gamma$100 *10*) γ_{3917}***913.3*** *5* ($\dagger_\gamma$13.5 *13*)

E **4888.1** *13*, $(37/2^+)$ γ_{4245}***643.0*** *5* ($\dagger_\gamma$100)

G **5214.8** *10*, $37/2^-$ γ_{4799}***415.6*** *5* ($\dagger_\gamma$100 *10*) γ_{4408}***806.8*** *5* ($\dagger_\gamma$43 *4*)

B **5365.0** *13*, $(37/2^+)$ γ_{4375}***990***

E **5655.6** *14*, $(41/2^+)$ γ_{4888}***767.5*** *5* ($\dagger_\gamma$100 *10*)

G **5669.4** *10*, $39/2^-$ γ_{5215}***454.4*** *5* ($\dagger_\gamma$100 *10*) γ_{4799}***870.5*** *5* ($\dagger_\gamma$47 *5*)

E **6543.6** *15*, $(45/2^+)$ γ_{5656}***888.0*** *5* ($\dagger_\gamma$100)

E **7536.6** *16*, $(49/2^+)$ γ_{6544}***993.0*** *5* ($\dagger_\gamma$100)

H **x**, J≈(43/2)

H **748.30+x** *11*, J+2 γ_{x}***748.30*** *11* ($\dagger_\gamma$0.68 *10*) $I^{(1)}$*=60.4,* $I^{(2)}$*=65.8,* *ħω=0.389*

H **1557.43+x** *12*, J+4 γ_{748+x}***809.13*** *3* ($\dagger_\gamma$0.95 *15*) $I^{(1)}$*=60.6,* $I^{(2)}$*=62.8,* *ħω=0.420*

H **2430.29+x** *13*, J+6 γ_{1557+x}***872.86*** *5* ($\dagger_\gamma$1.00 *15*) $I^{(1)}$*=60.8,* $I^{(2)}$*=62.1,* *ħω=0.453*

H **3367.56+x** *16*, J+8 γ_{2430+x}***937.27*** *9* ($\dagger_\gamma$0.85 *15*) $I^{(1)}$*=60.8,* $I^{(2)}$*=60.8,* *ħω=0.485*

H **4370.59+x** *17*, J+10 γ_{3368+x}***1003.03*** *7* ($\dagger_\gamma$0.90 *15*) $I^{(1)}$*=60.9,* $I^{(2)}$*=62.0,* *ħω=0.518*

H **5438.15+x** *18*, J+12 γ_{4371+x}***1067.56*** *6* ($\dagger_\gamma$0.80 *10*) $I^{(1)}$*=60.9,* $I^{(2)}$*=61.8,* *ħω=0.550*

H **6570.41+x** *19*, J+14 γ_{5438+x}***1132.26*** *6* ($\dagger_\gamma$0.75 *10*) $I^{(1)}$*=60.9,* $I^{(2)}$*=60.5,* *ħω=0.583*

H **7768.80+x** *22*, J+16 γ_{6570+x}***1198.39*** *10* ($\dagger_\gamma$0.60 *10*) $I^{(1)}$*=60.9,* $I^{(2)}$*=58.6,* *ħω=0.616*

H **9035.40+x** *23*, J+18 γ_{7769+x}***1266.60*** *6* ($\dagger_\gamma$0.47 *8*) $I^{(1)}$*=60.7,* $I^{(2)}$*=56.5,* *ħω=0.651*

H **10372.80+x** *24*, J+20 γ_{9035+x}***1337.40*** *8* ($\dagger_\gamma$0.33 *6*) $I^{(1)}$*=60.4,* $I^{(2)}$*=54.1,* *ħω=0.687*

H **11784.19+x** *25*, J+22 $\gamma_{10373+x}$***1411.39*** *8* ($\dagger_\gamma$0.28 *5*) $I^{(1)}$*=60.0,* $I^{(2)}$*=51.8,* *ħω=0.725*

H **13272.8+x** *3*, J+24 $\gamma_{11784+x}$***1488.63*** *9* ($\dagger_\gamma$0.25 *4*) $I^{(1)}$*=59.5,* $I^{(2)}$*=49.1,* *ħω=0.765*

H **14842.9+x** *3*, J+26 $\gamma_{13273+x}$***1570.09*** *8* ($\dagger_\gamma$0.18 *3*) $I^{(1)}$*=58.9,* $I^{(2)}$*=47.3,* *ħω=0.806*

H **16497.6+x** *3*, J+28 $\gamma_{14843+x}$***1654.70*** *12* ($\dagger_\gamma$0.10 *2*) $I^{(1)}$*=58.3,* $I^{(2)}$*=45.3,* *ħω=0.849*

H **18240.7+x** *4*, J+30 $\gamma_{16498+x}$***1743.04*** *14* $I^{(1)}$*=57.6,* $I^{(2)}$*=44.3,* *ħω=0.894*

H **20074.1+x** *7*, J+32 $\gamma_{18241+x}$***1833.4*** *6* $I^{(1)}$=*56.9*, $I^{(2)}$=*42.5*, *ħω=0.940*

H **22001.6+x** *14*, J+34 $\gamma_{20074+x}$***1927.5*** *12*

I **y**, J≈(37/2)

I **720.32+y** *9*, J+2 γ_{y}***720.32*** *9* ($\dagger_\gamma$0.05 *1*) $I^{(1)}$=*54.5*, $I^{(2)}$=*61.4*, *ħω=0.376*

I **1505.75+y** *14*, J+4 γ_{720+y}***785.43*** *10* ($\dagger_\gamma$0.15 *3*) $I^{(1)}$=*54.9*, $I^{(2)}$=*58.1*, *ħω=0.410*

I **2359.97+y** *16*, J+6 γ_{1506+y}***854.22*** *7* ($\dagger_\gamma$0.52 *8*) $I^{(1)}$=*55.2*, $I^{(2)}$=*60.5*, *ħω=0.444*

I **3280.26+y** *17*, J+8 γ_{2360+y}***920.29*** *7* ($\dagger_\gamma$0.52 *8*) $I^{(1)}$=*55.6*, $I^{(2)}$=*60.0*, *ħω=0.477*

I **4267.18+y** *19*, J+10 γ_{3280+y}***986.92*** *8* ($\dagger_\gamma$0.52 *8*) $I^{(1)}$=*55.9*, $I^{(2)}$=*61.3*, *ħω=0.510*

I **5319.37+y** *20*, J+12 γ_{4267+y}***1052.19*** *7* ($\dagger_\gamma$0.52 *8*) $I^{(1)}$=*56.2*, $I^{(2)}$=*60.6*, *ħω=0.543*

I **6437.60+y** *22*, J+14 γ_{5319+y}***1118.23*** *8* ($\dagger_\gamma$0.52 *8*) $I^{(1)}$=*56.5*, $I^{(2)}$=*60.5*, *ħω=0.576*

I **7621.93+y** *24*, J+16 γ_{6438+y}***1184.33*** *9* ($\dagger_\gamma$0.38 *7*) $I^{(1)}$=*56.6*, $I^{(2)}$=*58.1*, *ħω=0.609*

I **8875.12+y** *25*, J+18 γ_{7622+y}***1253.19*** *8* ($\dagger_\gamma$0.31 *5*) $I^{(1)}$=*56.7*, $I^{(2)}$=*56.6*, *ħω=0.644*

I **10199.0+y** *3*, J+20 γ_{8875+y}***1323.86*** *10* ($\dagger_\gamma$0.24 *4*) $I^{(1)}$=*56.6*, $I^{(2)}$=*54.0*, *ħω=0.680*

I **11596.9+y** *3*, J+22 $\gamma_{10199+y}$***1397.89*** *11* ($\dagger_\gamma$0.20 *3*) $I^{(1)}$=*56.4*, $I^{(2)}$=*51.5*, *ħω=0.718*

I **13072.4+y** *3*, J+24 $\gamma_{11597+y}$***1475.51*** *9* ($\dagger_\gamma$0.15 *3*) $I^{(1)}$=*56.1*, $I^{(2)}$=*48.9*, *ħω=0.758*

I **14629.7+y** *4*, J+26 $\gamma_{13072+y}$***1557.29*** *11* ($\dagger_\gamma$0.14 *2*) $I^{(1)}$=*55.6*, $I^{(2)}$=*46.7*, *ħω=0.800*

I **16272.7+y** *4*, J+28 $\gamma_{14630+y}$***1642.98*** *21* ($\dagger_\gamma$0.07 *1*) $I^{(1)}$=*55.1*, $I^{(2)}$=*45.3*, *ħω=0.844*

I **18004.0+y** *5*, J+30 $\gamma_{16273+y}$***1731.35*** *21* $I^{(1)}$=*54.6*, $I^{(2)}$=*44.3*, *ħω=0.888*

I **19825.6+y** *5*, J+32 $\gamma_{18004+y}$***1821.62*** *22* $I^{(1)}$=*54.1*, $I^{(2)}$=*45.3*, *ħω=0.933*

I **21735.6+y** *6*, J+34 $\gamma_{19826+y}$***1910.00*** *20*

J **z**, J≈(45/2)

J **956.9+z**, J+2 γ_{z}***956.9*** ($\dagger_\gamma$0.09 *2*) $I^{(1)}$=*50.4*, $I^{(2)}$=*137.9*, *ħω=0.486*

J **1942.8+z**, J+4 γ_{957+z}***985.9*** ($\dagger_\gamma$0.22 *4*) $I^{(1)}$=*52.8*, $I^{(2)}$=*115.6*, *ħω=0.502*

J **2963.3+z**, J+6 γ_{1943+z}***1020.5*** ($\dagger_\gamma$0.21 *4*) $I^{(1)}$=*54.2*, $I^{(2)}$=*64.9*, *ħω=0.526*

J **4045.4+z**, J+8 γ_{2963+z}***1082.1*** ($\dagger_\gamma$0.23 *4*) $I^{(1)}$=*54.7*, $I^{(2)}$=*60.2*, *ħω=0.558*

J **5193.9+z**, J+10 γ_{4045+z}***1148.5*** ($\dagger_\gamma$0.21 *4*) $I^{(1)}$=*55.2*, $I^{(2)}$=*67.7*, *ħω=0.589*

J **6401.5+z**, J+12 γ_{5194+z}***1207.6*** ($\dagger_\gamma$0.21 *4*) $I^{(1)}$=*55.6*, $I^{(2)}$=*59.6*, *ħω=0.621*

J **7676.2+z**, J+14 γ_{6402+z}***1274.7*** ($\dagger_\gamma$0.21 *4*) $I^{(1)}$=*56.0*, $I^{(2)}$=*66.7*, *ħω=0.652*

J **9010.9+z**, J+16 γ_{7676+z}***1334.7*** ($\dagger_\gamma$0.21 *4*) $I^{(1)}$=*56.6*, $I^{(2)}$=*74.6*, *ħω=0.681*

J **10399.2+z**, J+18 γ_{9011+z}***1388.3*** ($\dagger_\gamma$0.15 *2*) $I^{(1)}$=*57.3*, $I^{(2)}$=*79.5*, *ħω=0.707*

J **11837.8+z**, J+20 $\gamma_{10399+z}$***1438.6*** ($\dagger_\gamma$0.14 *2*) $I^{(1)}$=*58.1*, $I^{(2)}$=*79.5*, *ħω=0.732*

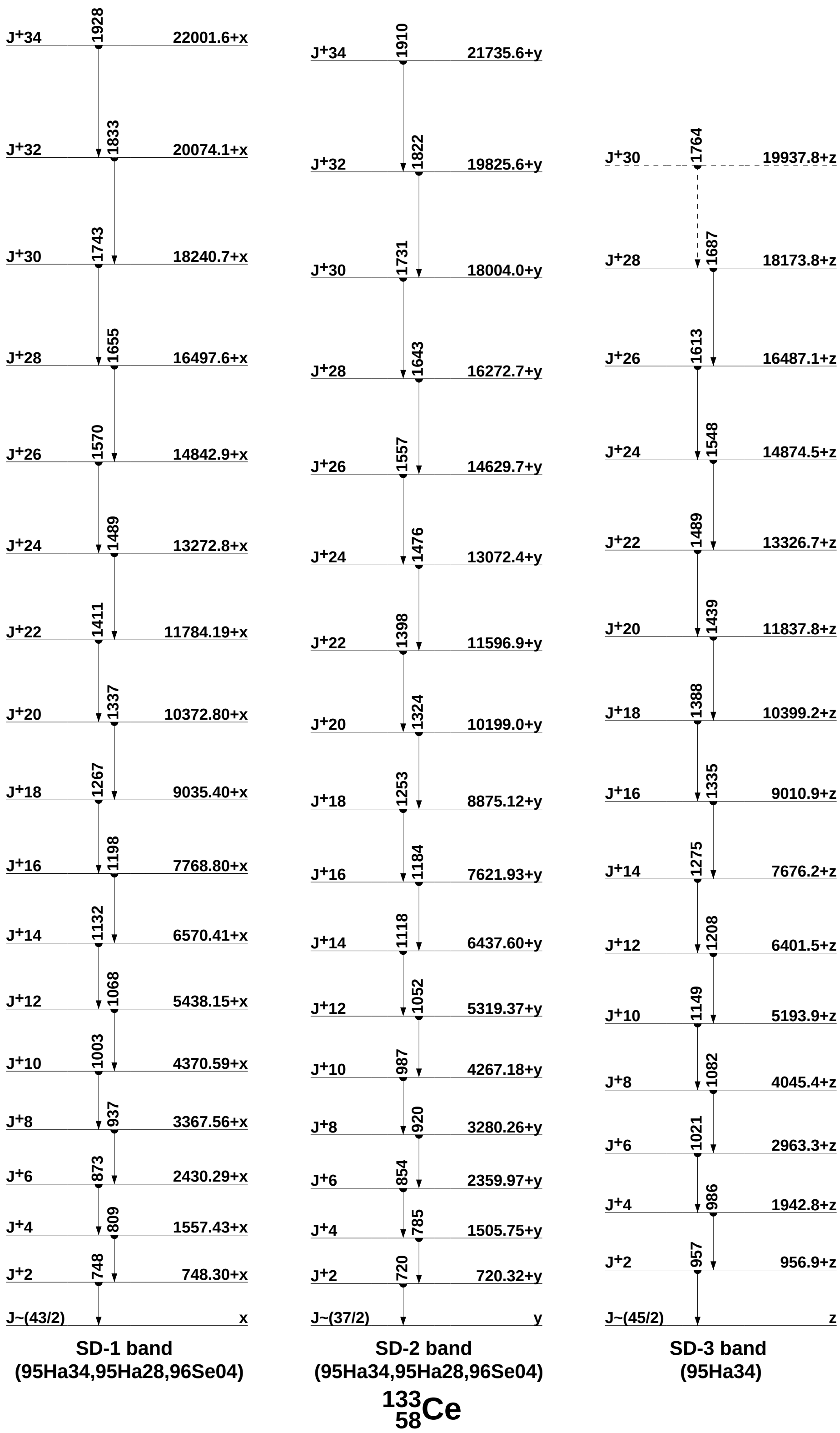
J **13326.7+z**, J+22 $\gamma_{11838+z}$***1488.9*** ($\dagger_\gamma$0.14 *2*) $I^{(1)}$=*58.6*, $I^{(2)}$=*67.9*, *ħω=0.759*

J **14874.5+z**, J+24 $\gamma_{13327+z}$***1547.8*** ($\dagger_\gamma$0.11 *2*) $I^{(1)}$=*58.9*, $I^{(2)}$=*61.7*, *ħω=0.790*

J **16487.1+z**, J+26 $\gamma_{14875+z}$***1612.6*** ($\dagger_\gamma$0.07 *1*) $I^{(1)}$=*58.8*, $I^{(2)}$=*54.0*, *ħω=0.825*

J **18173.8+z**, J+28 $\gamma_{16487+z}$***1686.7*** $I^{(1)}$=*58.5*, $I^{(2)}$=*51.7*, *ħω=0.863*

J **19937.8+z** (?), J+30 $\gamma_{18174+z}$***1764*** (?)



J+34 22001.6+x
1928
J+32 20074.1+x
1833
J+30 18240.7+x
1743
J+28 16497.6+x
1655
J+26 14842.9+x
1570
J+24 13272.8+x
1489
J+22 11784.19+x
1411
J+20 10372.80+x
1337
J+18 9035.40+x
1267
J+16 7768.80+x
1198
J+14 6570.41+x
1132
J+12 5438.15+x
1068
J+10 4370.59+x
1003
J+8 3367.56+x
937
J+6 2430.29+x
873
J+4 1557.43+x
809
J+2 748.30+x
748
J~(43/2) x
SD-1 band
(95Ha34,95Ha28,96Se04)
J+34 21735.6+y
1910
J+32 19825.6+y
1822
J+30 18004.0+y
1731
J+28 16272.7+y
1643
J+26 14629.7+y
1557
J+24 13072.4+y
1476
J+22 11596.9+y
1398
J+20 10199.0+y
1324
J+18 8875.12+y
1253
J+16 7621.93+y
1184
J+14 6437.60+y
1118
J+12 5319.37+y
1052
J+10 4267.18+y
987
J+8 3280.26+y
920
J+6 2359.97+y
854
J+4 1505.75+y
785
J+2 720.32+y
720
J~(37/2) y
SD-2 band
(95Ha34,95Ha28,96Se04)
J+30 19937.8+z
1764
J+28 18173.8+z
1687
J+26 16487.1+z
1613
J+24 14874.5+z
1548
J+22 13326.7+z
1489
J+20 11837.8+z
1439
J+18 10399.2+z
1388
J+16 9010.9+z
1335
J+14 7676.2+z
1275
J+12 6401.5+z
1208
J+10 5193.9+z
1149
J+8 4045.4+z
1082
J+6 2963.3+z
1021
J+4 1942.8+z
986
J+2 956.9+z
957
J~(45/2) z
SD-3 band
(95Ha34)
133 58 Ce