$^{198}_{82}$Pb

Δ: (–26100) **S_n:** (9380) **S_p:** (5010)
Q_{EC}: (1410) **Q_α:** (3720)

Nuclear Bands

A Band Structure
B Band Structure
C Band Structure
D Band Structure
E Band Structure
F Band Structure
G Band Structure
H Band Structure
I Band Structure
J SD band (96Hi13,94Cl02,91Wa14)

Levels and γ-ray branchings:

A **0**, 0^+, 2.40 *10* h, %EC+%β^+=100
A **1063.50** *20*, 2^+ γ_0***1063.5*** *2* (†$_\gamma$100) E2
1392.1 *10*, (0^+) γ_0***1392.1*** (E0)
A **1625.9** *3*, 4^+ γ_{1064}***562.4*** *2* (†$_\gamma$100) E2
1734.7 *10*, (0^+) γ_0***1734.7*** (E0)
1823.5 *4*, $(5)^-$, 50.4 *5* ns, μ=0.38 *3* γ_{1626}***197.6*** *2* (†$_\gamma$100) E1
1980.7 *11*, (4^+) γ_{1064}***917.2*** (†$_\gamma$100)
1996.4 *11*, (5) γ_{1626}***370.5*** (†$_\gamma$100)
2099.4 *11*, (4,5,6) γ_{1626}***473.5*** (†$_\gamma$100)
2141.4 *4*, $(7)^-$, 4.19 *10* μs γ_{1824}***317.9*** *2* (†$_\gamma$100) E2
2190.7 *11*, (6) γ_{1824}***367.2*** (†$_\gamma$100)
2231.4 *5*, $(9)^-$, 137 *10* ns γ_{2141}***90.0*** *2* (†$_\gamma$100) E2
2257.7 *11*, (6^-) γ_{1824}***434.2*** (†$_\gamma$100)
2568.7 *15*, (6^+) γ_{1981}***588.0*** (†$_\gamma$100)
2602.7 *15* γ_{2191}***412*** (†$_\gamma$100)
A **2772.3** *5*, $(10)^+$ γ_{2231}***540.9*** *2* (†$_\gamma$100) E1
A **2820.5** *7*, $(12)^+$, 212 *4* ns γ_{2772}***48.2*** *5* (†$_\gamma$100) E2
A **3749.6** *8*, (14^+) γ_{2821}***929.1*** *2* (†$_\gamma$100) E2
H **4190.2** *8*, (16^+) γ_{3750}***440.6*** *2* (†$_\gamma$100) E2
G **4379.6** *8*, (15^-) γ_{3750}***630.0*** *2* (†$_\gamma$100) E1
I **4701.5** *8*, (16^+) γ_{4380}***321.9*** *2* (†$_\gamma$100) (E1) γ_{4190}***511.3*** *2* (†$_\gamma$≈47)
4773.0 *8*, (16), 6.3 *3* ns γ_{4702}***71.5***(?) γ_{4380}***393.4*** *2* D
4841.8 *8*, (16^+) γ_{4380}***462.2*** *2* (†$_\gamma$100) (E1)
H **5070.5** *8*, 18^+ γ_{4190}***880.3*** *3* (†$_\gamma$100) E2
G **5140.3** *8*, (17^-) γ_{4380}***760.7*** *2* (†$_\gamma$100) E2
I **5649.2** *8*, (18^+) γ_{4702}***947.7*** *2* (†$_\gamma$100) E2
H **5700.5** *9*, (20^+) γ_{5071}***630.0*** *2* (†$_\gamma$100)
G **5837.8** *8*, (19^-) γ_{5140}***697.5*** *2* (†$_\gamma$100) E2
I **6466.2** *8*, (20) γ_{5649}***817.0*** *2* (†$_\gamma$100) Q
H **6499.0** *9*, (22^+) γ_{5701}***798.5*** *2* (†$_\gamma$100) E2
G **6499.1** *9*, (21^-) γ_{5838}***661.3*** *2* (†$_\gamma$100) E2
G **6978.1** *9*, (23^-) $\gamma_{6499.1}$***479.0*** *2* (†$_\gamma$100) (E2)

t

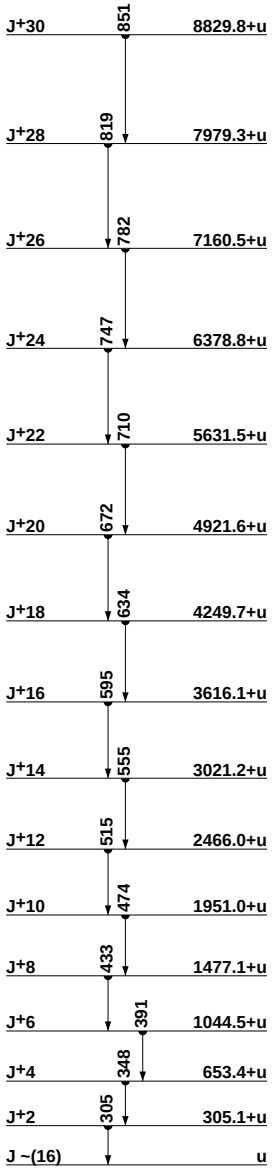
455.8+t *3* γ_0***455.8*** *3* (†$_\gamma$100)
633.3+t *4* γ_{456+t}***177.5*** *2* (†$_\gamma$100) M1
662.6+t *4* γ_{456+t}***206.8*** *2* (†$_\gamma$100) M1
1082.2+t *4* γ_{663+t}***419.5*** *3* (†$_\gamma$76 *9*) M1 γ_{633+t}***449.0*** *2* (†$_\gamma$100 *9*) M1
1176.2+t *7* γ_{1082+t}***94.0*** *5* (†$_\gamma$100)
1293.1+t *7* γ_{1176+t}***116.9*** *2* (†$_\gamma$100) M1
1450.5+t *7* γ_{1293+t}***157.4*** *2* (†$_\gamma$100) M1
1604.2+t *9*(?)
1839.6+t *9* γ_{1604+t}***235.4*** *2* (†$_\gamma$100)
1879.7+t *8* γ_{1451+t}***429.2*** *2* (†$_\gamma$100) M1
2137.8+t *8* γ_{1840+t}***298.2*** *2* (†$_\gamma$100) M1
2216.0+t *8* γ_{1880+t}***336.3*** *2* (†$_\gamma$100) M1
2444.0+t *8* γ_{2216+t}***228.0*** *2* (†$_\gamma$100 *6*) M1 γ_{2138+t}***306.2*** *2* (†$_\gamma$49 *5*) M1

F **v**, (20^+)
F **206.80+v** *20*, (21^+) γ_0***206.8*** *2* (†$_\gamma$100) M1
F **444.9+v** *3*, (22^+) γ_{207+v}***238.1*** *2* (†$_\gamma$100) M1
F **725.1+v** *4*, (23^+) γ_{445+v}***280.2*** *2* (†$_\gamma$100) M1
F **1051.4+v** *4*, (24^+), 0.40 *10* ps γ_{725+v}***326.3*** *2* (†$_\gamma$100) M1
F **1426.4+v** *5*, (25^+), 0.23 *5* ps γ_{1051+v}***375.0*** *2* (†$_\gamma$100) M1
F **1848.3+v** *5*, (26^+), 0.13 *3* ps γ_{1426+v}***421.9*** *2* (†$_\gamma$100) M1
F **2312.5+v** *6*, (27^+), 0.053 *14* ps γ_{1848+v}***464.2*** *2* (†$_\gamma$100) M1
F **2818.7+v** *6*, (28^+), 0.036 *8* ps γ_{2313+v}***506.2*** *2* (†$_\gamma$100) M1
F **3369.0+v** *6*, (29^+) γ_{2819+v}***550.3*** *2* (†$_\gamma$100) M1
F **3960.7+v** *7*, (30^+) γ_{3369+v}***591.7*** *3* (†$_\gamma$100) M1

E **s**, J
E **220.80+s** *20*, J+1 γ_0***220.8*** *2* (†$_\gamma$100)
E **461.2+s** *3*, J+2 γ_{221+s}***240.4*** *2* (†$_\gamma$100) M1
E **716.0+s** *4*, J+3 γ_{461+s}***254.8*** *2* (†$_\gamma$100) M1
E **997.7+s** *4*, J+4 γ_{716+s}***281.7*** *2* (†$_\gamma$100) M1
E **1330.0+s** *5*, J+5 γ_{998+s}***332.3*** *2* (†$_\gamma$100) M1
E **1718.0+s** *5*, J+6 γ_{1330+s}***388.0*** *2* (†$_\gamma$100) M1
E **2110.0+s** *6*, J+7 γ_{1718+s}***392.0*** *2* (†$_\gamma$100) M1

B **w**, (16,17,18)
B **114.1+w** *3*, J+1 γ_0***114.1*** *3* (†$_\gamma$100)
B **270.0+w** *5*, J+2 γ_{114+w}***155.9*** *3* (†$_\gamma$100) (M1)

B **485.8+w** *5*, J+3 γ_{270+w}***215.8*** *2* (†$_\gamma$100)
M1
B **769.6+w** *5*, J+4 γ_{486+w}***283.8*** *2* (†$_\gamma$100)
M1
B **1113.9+w** *6*, J+5 γ_{770+w}***344.3*** *2* (†$_\gamma$100)
M1
B **1533.1+w** *6*, J+6 γ_{1114+w}***419.2*** *2* (†$_\gamma$100)
(M1)
B **2010.3+w** *7*, J+7 γ_{1533+w}***477.2*** *2* (†$_\gamma$100)
M1 γ_{1114+w}***896*** (?)
B **2495.1+w** *7*, J+8 γ_{2010+w}***484.8*** *2* (†$_\gamma$100)
M1
x, (12,13,14)
1258.71+x *20*, J+1 γ_x***1258.7*** *2* (†$_\gamma$100)
M1
1580.5+x *3*, J+2 γ_{1259+x}***321.8*** *2* (†$_\gamma$100)
M1
1813.6+x *4*, J+3 γ_{1581+x}***233.6*** *2* (†$_\gamma$100)
M1
2345.1+x *4*, J+4 γ_{1814+x}***531.5*** *2* (†$_\gamma$35 *5*)
M1 γ_{1581+x}***764.1*** *2* (†$_\gamma$100 *5*) E2
2610.2+x *4*, J+5 γ_{2345+x}***264.6*** *2*
(†$_\gamma$100 *12*) γ_{1814+x}***796.9*** *2* (†$_\gamma$27 *8*)
3152.5+x *4*, J+6 γ_{2610+x}***542.7*** *2* (†$_\gamma$38 *5*)
M1 γ_{2345+x}***807.1*** *2* (†$_\gamma$100 *5*) E2
C **z**, (18$^-$)
C **113.90+z** *20*, (19$^-$) γ_z***113.9*** *2* (†$_\gamma$100)
(M1)
C **269.9+z** *3*, (20$^-$) γ_{114+z}***156.0*** *2* (†$_\gamma$100)
M1
C **485.2+z** *4*, (21$^-$) γ_{270+z}***215.3*** *2* (†$_\gamma$100)
M1
C **763.9+z** *4*, (22$^-$) γ_{485+z}***278.7*** *2* (†$_\gamma$100)
(M1)
C **1106.7+z** *5*, (23$^-$), 0.79 *14* ps
γ_{764+z}***342.8*** *2* (†$_\gamma$100) M1
C **1496.2+z** *5*, (24$^-$), 0.50 *7* ps
γ_{1107+z}***389.5*** *2* (†$_\gamma$100) M1
C **1919.3+z** *6*, (25$^-$), 0.32 *6* ps
γ_{1496+z}***423.1*** *2* (†$_\gamma$100) M1
C **2363.9+z** *6*, (26$^-$), 0.18 *3* ps
γ_{1919+z}***444.6*** *2* (†$_\gamma$100) M1
C **2835.6+z** *6*, (27$^-$), 0.12 *4* ps
γ_{2364+z}***471.7*** *2* (†$_\gamma$100) M1
C **3311.8+z** *7*, (28$^-$), 0.17 *4* ps
γ_{2836+z}***476.2*** *2* (†$_\gamma$100) M1
C **3840.8+z** *8*, (29$^-$) γ_{3312+z}***529.0*** *5* (†$_\gamma$100)
D **y**, J
D **123.4+y** *3*, J+1 γ_y***123.4*** *3* (†$_\gamma$100)
D **283.2+y** *5*, J+2 γ_{123+y}***159.8*** *3* (†$_\gamma$100)
M1
D **487.6+y** *5*, J+3 γ_{283+y}***204.4*** *2* (†$_\gamma$100)
M1
D **752.5+y** *5*, J+4 γ_{488+y}***264.9*** *2* (†$_\gamma$100)
M1
D **1090.3+y** *6*, J+5 γ_{753+y}***337.8*** *2* (†$_\gamma$100)
M1
D **1499.4+y** *6*, J+6 γ_{1090+y}***409.1*** *2* (†$_\gamma$100)
M1
D **1952.4+y** *8*, J+7 γ_{1499+y}***453.0*** *5* (†$_\gamma$100)
D **2447.4+y** *13* (?), J+8 γ_{1952+y}***495*** (†$_\gamma$100)
J **u**, J≈(16)
J **305.1+u**, J+2 γ_0***305.1*** (†$_\gamma$1.00 *5*)
$I^{(2)}$=*92.6, ħω=0.163*
J **653.4+u**, J+4 γ_{305+u}***348.3*** (†$_\gamma$0.92 *4*)
$I^{(2)}$=*93.5, ħω=0.185*
J **1044.5+u**, J+6 γ_{653+u}***391.1*** (†$_\gamma$0.78 *5*)
$I^{(2)}$=*96.4, ħω=0.206*
J **1477.1+u**, J+8 γ_{1045+u}***432.6*** (†$_\gamma$0.68 *5*)
$I^{(2)}$=*96.9, ħω=0.227*
J **1951.0+u**, J+10 γ_{1477+u}***473.9*** (†$_\gamma$0.70 *5*)
$I^{(2)}$=*97.3, ħω=0.247*
J **2466.0+u**, J+12 γ_{1951+u}***515.0*** (†$_\gamma$0.68 *4*)
$I^{(2)}$=*99.5, ħω=0.268*
J **3021.2+u**, J+14 γ_{2466+u}***555.2*** (†$_\gamma$0.60 *5*)
$I^{(2)}$=*100.8, ħω=0.288*
J **3616.1+u**, J+16 γ_{3021+u}***594.9*** (†$_\gamma$0.65 *4*)
$I^{(2)}$=*103.4, ħω=0.307*
J **4249.7+u**, J+18 γ_{3616+u}***633.6*** (†$_\gamma$0.59 *4*)
$I^{(2)}$=*104.4, ħω=0.326*
J **4921.6+u**, J+20 γ_{4250+u}***671.9*** (†$_\gamma$0.37 *3*)
$I^{(2)}$=*105.3, ħω=0.345*
J **5631.5+u**, J+22 γ_{4922+u}***709.9*** (†$_\gamma$0.30 *3*)
$I^{(2)}$=*107.0, ħω=0.364*
J **6378.8+u**, J+24 γ_{5632+u}***747.3*** (†$_\gamma$0.23 *3*)
$I^{(2)}$=*116.3, ħω=0.382*
J **7160.5+u**, J+26 γ_{6379+u}***781.7*** (†$_\gamma$0.07 *3*)
$I^{(2)}$=*107.8, ħω=0.400*
J **7979.3+u**, J+28 γ_{7161+u}***818.8*** (†$_\gamma$0.08 *3*)
$I^{(2)}$=*126.2, ħω=0.417*
J **8829.8+u**, J+30 γ_{7979+u}***850.5*** (†$_\gamma$0.05 *3*)



SD band
(96Hi13,94Cl02,91Wa14)

$^{198}_{82}$**Pb**