$^{198}_{84}$Po

Δ: (–15520) **S_n:** (10140) **S_p:** (3200)
Q_{EC}: (4020) **Q_α:** 6309.1 *20*

Nuclear Bands

A Band Structure
B Oblate band
C SD band (96Mc01)

Levels and γ-ray branchings:

A **0**, 0^+, 1.76 *3* m, %α=57 *2*, %EC+%β^+=43 *2*

A **605.0** *1*, 2^+ γ_0***605.0*** *1* (†$_\gamma$100) E2

816, 0^+, <0.4 ns γ_{605}***211*** (†$_{\gamma+e}$45 *37*)
γ_0***816*** (†$_e$100 *37*) E0

B **1038.9** *7*, 2^+ γ_{605}***434*** γ_0***1039***

A **1158.51** *14*, 4^+ γ_{605}***553.5*** *1* (†$_\gamma$100) E2

B **1482.7** *7*, 4^+ γ_{1159}***324*** γ_{1039}***444***

A **1717.70** *17*, 6^+ γ_{1159}***559.2*** *1* (†$_\gamma$100) E2

1808.61 *17*, 5^- γ_{1483}***326*** γ_{1159}***650.1*** *1* (†$_\gamma$100 *5*) E1

1853.80 *20*, 8^+, 29 *2* ns γ_{1718}***136.1*** *2* (†$_\gamma$100) E2

1875.16 *21*, (6^+) γ_{1159}***716.6*** *2* (†$_\gamma$100) E2

2114.50 *18*, 7^- γ_{1875}***239.3*** *2* (†$_\gamma$100) E1
γ_{1809}***305.9*** *1* (†$_\gamma$100 *6*) E2
γ_{1718}***396.8*** *3* (†$_\gamma$22 *11*) E1

2324.92 *19*, 9^- γ_{2115}***210.4*** *1* (†$_\gamma$83 *6*) E2
γ_{1854}***471.1*** *1* (†$_\gamma$100 *6*) E1

2566.10 *21*, 11^-, 200 *20* ns γ_{2325}***241.2*** *2* (†$_\gamma$11 *4*) E2 γ_{1854}***712.3*** *1* (†$_\gamma$100 *4*) E3

2620.65 *22*, (8^+) γ_{1854}***766.8*** *2* (†$_\gamma$44 *11*) (E2) γ_{1718}***903.0*** *2* (†$_\gamma$100 *11*) E2

2692.05 *21*, 10^+ γ_{2566}***126.0*** *2* (†$_\gamma$100 *13*) E1 γ_{2325}***367.1*** *1* (†$_\gamma$71 *8*) E1
γ_{1854}***838.3*** *2* (†$_\gamma$21 *4*) E2

2692.05+x *21*, 12^+, 0.75 *5* ps γ***X***

2888.52 *22*, 11^- γ_{2325}***563.6*** *1* (†$_\gamma$100) E2

3463.5, (13^-) γ_{2889}***575.0*** *1* (†$_\gamma$100) (E2)

C **y**, J≈(6)

C **175.9+y**, J+2 γ_y***175.9*** *3* $I^{(2)}$*=89.9, ħω=0.099*

C **396.3+y**, J+4 γ_{176+y}***220.37*** *20* (†$_\gamma$0.47 *8*)
$I^{(2)}$*=90.5, ħω=0.121*

C **660.9+y**, J+6 γ_{396+y}***264.59*** *15* (†$_\gamma$0.85 *9*)
$I^{(2)}$*=93.7, ħω=0.143*

C **968.2+y**, J+8 γ_{661+y}***307.29*** *15* (†$_\gamma$0.97 *9*)
$I^{(2)}$*=95.2, ħω=0.164*

C **1317.4+y**, J+10 γ_{968+y}***349.29*** *16* (†$_\gamma$1.00 *10*) $I^{(2)}$*=97.2, ħω=0.185*

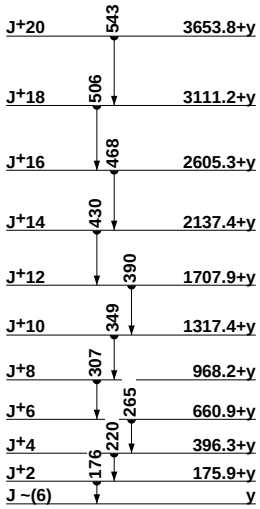
C **1707.9+y**, J+12 γ_{1317+y}***390.46*** *20* (†$_\gamma$0.89 *10*) $I^{(2)}$*=102.4, ħω=0.205*

C **2137.4+y**, J+14 γ_{1708+y}***429.54*** *19*
$I^{(2)}$*=104.3, ħω=0.224*

C **2605.3+y**, J+16 γ_{2137+y}***467.9*** *4* (†$_\gamma$0.87 *10*) $I^{(2)}$*=105.3, ħω=0.243*

C **3111.2+y**, J+18 γ_{2605+y}***505.9*** *4* (†$_\gamma$0.87 *12*) $I^{(2)}$*=109.0, ħω=0.262*

C **3653.8+y**, J+20 γ_{3111+y}***542.6*** *4* (†$_\gamma$0.40 *9*)



SD band
(96Mc01)

$^{198}_{84}$Po