# $^{198}_{84}Po_{114}$

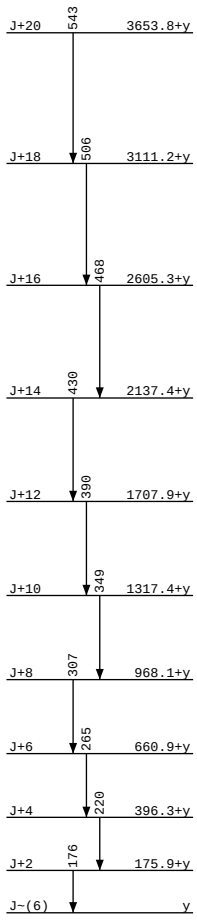
$S_n$: 10143 *SY*, $S_p$: 3183 *SY*

*Nuclear Bands*

A GS band
B Oblate band
C Band based on $7^-$
D Band based on $9^-$
E Band based on $8^-$
F SD band (1996Mc01)

*Levels and γ-ray branchings:*

A **0**, $0^+$, *1.77*$_3$ *min*, %α=57$_2$, %ε+%$\beta^+$=43$_2$
A **604.70**$_{10}$, $2^+$, $\gamma_{\mathbf{0}}$**604.7**$_1$(100) E2
B **816.0**$_{10}$, $0^+$, *<0.4 ns*, $\gamma_{\mathbf{0}}$**(816.0)** E0
B **1038.91**$_{14}$, $2^+$, $\gamma_{\mathbf{604.70}}$**434.2**$_2$(100$_{22}$), $\gamma_{\mathbf{0}}$**1038.9**$_2$(48$_{22}$)
A **1157.90**$_{13}$, $4^+$, $\gamma_{\mathbf{604.70}}$**553.2**$_1$(100) E2
B **1482.92**$_{17}$, $4^+$, $\gamma_{\mathbf{1157.90}}$**325.0**$_3$(48$_{17}$), $\gamma_{\mathbf{1038.91}}$**444.0**$_2$(100$_{17}$)
A **1716.79**$_{16}$, $6^+$, $\gamma_{\mathbf{1157.90}}$**558.9**$_1$(100) E2
**1807.69**$_{16}$, $5^-$, $\gamma_{\mathbf{1482.92}}$**324.7**$_2$(22$_5$), $\gamma_{\mathbf{1157.90}}$**649.8**$_1$(100$_5$) E1
**1852.92**$_{21}$, $8^+$, *29*$_2$ *ns*, μ=+7.28$_{24}$, $\gamma_{\mathbf{1716.79}}$**136.1**$_2$(100) E2
B **1874.37**$_{19}$, $(6^+)$, $\gamma_{\mathbf{1482.92}}$**391.5**$_2$(< 22), $\gamma_{\mathbf{1157.90}}$**716.4**$_2$(100$_{11}$) E2
C **2113.61**$_{19}$, $7^-$, $\gamma_{\mathbf{1874.37}}$**239.2**$_3$(36$_4$) E1, $\gamma_{\mathbf{1807.69}}$**305.9**$_2$(100$_5$) E2, $\gamma_{\mathbf{1716.79}}$**396.8**$_2$(22$_6$) E1
E **2286.9**$_3$, $8^-$, $\gamma_{\mathbf{2113.61}}$**173.2**$_2$(100) D
D **2323.94**$_{21}$, $9^-$, $\gamma_{\mathbf{2113.61}}$**210.3**$_2$(85$_4$) E2, $\gamma_{\mathbf{1852.92}}$**471.0**$_2$(100$_4$) E1
**2343.8**$_3$, $(8^+)$, $\gamma_{\mathbf{1716.79}}$**627.0**$_2$(100) (Q)
**2565.00**$_{22}$, $11^-$, *200*$_{20}$ *ns*, μ=+12.1$_6$, $\gamma_{\mathbf{2323.94}}$**241.0**$_2$(13.9$_{16}$) E2, $\gamma_{\mathbf{1852.92}}$**712.1**$_1$(100$_3$) E3
**2619.51**$_{24}$, $(8^+)$, $\gamma_{\mathbf{1852.92}}$**766.4**$_3$(100$_{44}$) (E2), $\gamma_{\mathbf{1716.79}}$**902.8**$_2$(89$_{28}$) E2
C **2640.57**$_{23}$, $9^-$, $\gamma_{\mathbf{2323.94}}$**316.6**$_2$(< 36), $\gamma_{\mathbf{2113.61}}$**527.0**$_2$(100$_{21}$)
**2690.86**$_{24}$, $10^+$, $\gamma_{\mathbf{2565.00}}$**125.9**$_2$(100$_9$) E1, $\gamma_{\mathbf{2323.94}}$**366.9**$_2$(91$_9$) E1, $\gamma_{\mathbf{1852.92}}$**837.9**$_3$(37$_{12}$) E2
**2691.86+x**, $(12^+)$, *0.75*$_5$ *μs*, μ=-1.86$_4$
E **2812.3**$_3$, $(10^-)$, $\gamma_{\mathbf{2323.94}}$**488.5**$_3$(52$_{14}$), $\gamma_{\mathbf{2286.9}}$**525.4**$_2$(100$_{14}$)
D **2899.64**$_{23}$, $(11^-)$, $\gamma_{\mathbf{2323.94}}$**575.7**$_1$(100) (Q)
**2963.0**$_4$, $\gamma_{\mathbf{2343.8}}$**619.2**$_3$(100)
**3009.4**$_4$, $(10^+)$, $\gamma_{\mathbf{2343.8}}$**665.6**$_3$(100) (Q)
**3149.63+x**(?), $\gamma_{\mathbf{2691.86+x}}$**457.8**$_2$(?)
C **3173.8**$_3$, $(11^-)$, $\gamma_{\mathbf{2640.57}}$**533.2**$_2$(100) (Q)
**3241.37+x**, $(14^+)$, $\gamma_{\mathbf{2691.86+x}}$**549.5**$_1$
E **3307.8**$_4$, $(12^-)$, $\gamma_{\mathbf{2812.3}}$**495.5**$_2$(100) Q
**3444.4+x**, $\gamma_{\mathbf{2691.86+x}}$**752.5**$_3$
D **3464.5**$_3$, $(13^-)$, $\gamma_{\mathbf{2899.64}}$**564.9**$_2$(100) Q
**3579.27+x**, $\gamma_{\mathbf{3241.37+x}}$**337.8**$_2$(100$_{20}$), $\gamma_{\mathbf{3149.63+x}}$**429.7**$_3$(?)
C **3645.4**$_4$, $(13^-)$, $\gamma_{\mathbf{3173.8}}$**471.6**$_3$(72$_{28}$) (Q), $\gamma_{\mathbf{2899.64}}$**745.7**$_3$(100$_{39}$)
**3782.96+x**, $(16^+)$, $\gamma_{\mathbf{3241.37+x}}$**541.6**$_1$(100) Q
**3801.1**$_4$, $\gamma_{\mathbf{3464.5}}$**336.6**$_2$(100)
E **3867.6**$_4$, $(14^-)$, $\gamma_{\mathbf{3307.8}}$**559.8**$_2$(100) (Q)
**3984.77+x**, $\gamma_{\mathbf{3241.37+x}}$**743.4**$_2$(100)
**4010.63+x**, $(16^+)$, $\gamma_{\mathbf{3782.96+x}}$**227.8**$_3$(13$_3$), $\gamma_{\mathbf{3579.27+x}}$**431.2**$_3$(33$_7$), $\gamma_{\mathbf{3241.37+x}}$**769.3**$_2$(100$_{10}$) (Q)
C **4051.5**$_5$, $\gamma_{\mathbf{3645.4}}$**406.1**$_3$(100)
D **4085.6**$_4$, $(15^-)$, $\gamma_{\mathbf{3464.5}}$**621.1**$_2$(100) (Q)
E **4321.3**$_5$, $(16^-)$, $\gamma_{\mathbf{3867.6}}$**453.7**$_2$(100) (Q)
**4391.81+x**, $(17)$, $\gamma_{\mathbf{4010.63+x}}$**381.2**$_2$(100$_{13}$) D, $\gamma_{\mathbf{3782.96+x}}$**608.8**$_3$(37$_8$)
**4407.66+x**, $(18^+)$, $\gamma_{\mathbf{3782.96+x}}$**624.7**$_2$(100) (Q)
D **4520.2**$_5$, $\gamma_{\mathbf{4085.6}}$**434.6**$_2$(100)
E **4595.2**$_5$, $\gamma_{\mathbf{4321.3}}$**273.9**$_2$(100)
**4662.1+x**, $\gamma_{\mathbf{4391.81+x}}$**270.3**$_2$(100)
**5113.2+x**, $\gamma_{\mathbf{4407.66+x}}$**705.5**$_3$(100)
F **y**, J ≈ $(6)$
F **175.9+y**, J + 2, $\gamma_{\mathbf{y}}$**175.9**$_3$
F **396.3+y**, J + 4, $\gamma_{\mathbf{175.9+y}}$**220.37**$_{20}$(0.47$_8$)
F **660.9+y**, J + 6, $\gamma_{\mathbf{396.3+y}}$**264.59**$_{15}$(0.85$_9$)
F **968.1+y**, J + 8, $\gamma_{\mathbf{660.9+y}}$**307.29**$_{15}$(0.97$_9$)
F **1317.4+y**, J + 10, $\gamma_{\mathbf{968.1+y}}$**349.29**$_{16}$(1.00$_{10}$)
F **1707.9+y**, J + 12, $\gamma_{\mathbf{1317.4+y}}$**390.46**$_{20}$(0.89$_{10}$)
F **2137.4+y**, J + 14, $\gamma_{\mathbf{1707.9+y}}$**429.54**$_{19}$
F **2605.3+y**, J + 16, $\gamma_{\mathbf{2137.4+y}}$**467.9**$_4$(0.87$_{10}$)
F **3111.2+y**, J + 18, $\gamma_{\mathbf{2605.3+y}}$**505.9**$_4$(0.87$_{12}$)
F **3653.8+y**, J + 20, $\gamma_{\mathbf{3111.2+y}}$**542.6**$_4$(0.40$_9$)




SD band
(1996Mc01)
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