$^{241}_{95}$Am

Δ: 52930.2 *20* **S_n:** 6641 *14* **S_p:** 4480.1 *3*
Q_α: 5637.81 *12*
σ_f^0: 3.20 *9* b , **σ_γ^0**(to 0): 533 *13* b , **σ_γ^0**(to 48.6): 54 *5* b

Nuclear Bands

A 5/2[523]
B 5/2[642]
C 3/2[521]
D 1/2[400]
E 1/2[530]
F 3/2[651]
G Fission isomer

Levels and γ-ray branchings:

A **0**, 5/2⁻, 432.2 *7* y, %α=100, %SF=4.3×10^{-10} *18*, μ=+1.61 *3*, Q=4.34 *6*, Q=+4.2 *13*

A **41.176** *3*, 7/2⁻ **γ_0*41.176*** *3* (†$_\gamma$100) M1+E2: δ=0.48 *5*

A **93.65** *10*, 9/2⁻

A **158.0** *15*, 11/2⁻

B **205.883** *10*, 5/2⁺ **γ_{41}*164.8*** *2* (†$_\gamma$16 *3*) **γ_0*205.879*** *13* (†$_\gamma$100 *6*) E1

A **234.0** *13*, (13/2⁻)

B **235** *1*, (7/2⁺) **γ_{41}*195*** *1* (†$_\gamma$100)
239 *2* (?)

B **272** *2*, (9/2⁺)
273 *2* (?)

B **320** *2*, (11/2⁺)

B **380** *1*, (13/2⁺)
459 (?)

C **471.810** *9*, 3/2⁻ **γ_{206}*265.922*** *12* (†$_\gamma$0.56 *6*) (E1) **γ_{41}*430.634*** *20* (†$_\gamma$5.7 *3*) E2 **γ_0*471.805*** *20* (†$_\gamma$100 *5*) M1+E2
495

C **504.448** *9*, 5/2⁻ **γ_{472}*32.639*** *3* (†$_\gamma$17 *3*) M1+E2: δ=0.125 *10* **γ_{206}*298.57*** *5* (†$_\gamma$6.4 *17*) **γ_{94}*410.8*** *1* (†$_\gamma$7.0 *7*) **γ_{41}*463.273*** *20* (†$_\gamma$100 *7*) M1+E2 **γ_0*504.45*** *3* (†$_\gamma$48 *4*) (M1+E2)
543 (?)

C **549** *1*, 7/2⁻

D **623.10** *4*, (1/2⁺) **γ_{472}*151.4*** *4* (†$_\gamma$≈3) **γ_{206}*417.24*** *4* (†$_\gamma$100 *7*) (E2) **γ_0*623.1*** *3* (†$_\gamma$1.8 *5*)

E **636.861** *10*, 3/2⁻ **γ_{504}*132.413*** *7* (†$_\gamma$100 *6*) M1+E2: δ=0.060 *20* **γ_{472}*165.049*** *8* (†$_\gamma$77 *6*) M1+E2: δ=0.22 *3* **γ_{206}*430*** *1* (†$_\gamma$≈1.0) **γ_{41}*595.8*** *3* (†$_\gamma$0.38 *8*) **γ_0*636.88*** *3* (†$_\gamma$40 *3*) M1+E2: δ=0.57 *20*

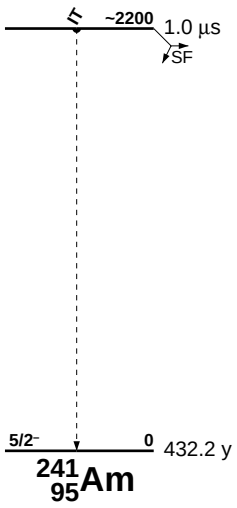
E **652.089** *10*, (1/2)⁻ **γ_{637}*15.228*** *2* (†$_\gamma$11.5 *7*) M1+E2: δ=0.032 *7* **γ_{623}*29.02*** *5* (†$_\gamma$6.3 *13*) **γ_{504}*147.67*** *3* (†$_\gamma$4.2 *17*) **γ_{472}*180.277*** *8* (†$_\gamma$100 *9*) M1(+E2) **γ_0*652.1*** *4* (†$_\gamma$8.3 *21*)

D **653.23** *4*, (3/2⁺) **γ_{206}*447.35*** *4* (†$_\gamma$80 *10*) (M1+E2): δ=0.36 $^{+50}_{-36}$ **γ_0*653.2*** *2* (†$_\gamma$100 *7*)

F **670.24** *8*, (3/2⁺) **γ_{206}*464.36*** *8* (†$_\gamma$15 *3*) (M1+E2): δ=1.5 $^{+20}_{-7}$ **γ_0*670.2*** *2* (†$_\gamma$100 *7*)

C **682** *3*, (11/2⁻)
732 *4*
822 *4*
884 *4*
952 *1*, 5/2⁻
982 *2*
1020 *4*
1064 *4*
1106 *4*
1132 *5*
1136 *3*
1163 *3*
1227 *3*
1550 *4*, (5/2⁻)

G ≈**2200**, 1.0 *3* μs, %SF=100


~2200
1.0 μs
SF
5/2⁻
0
432.2 y
241
95
Am