

²¹⁸Po 84

Δ: 8351.3 S_n: (5640) Q_{β⁻}: 264.12 Q_α: 6114.689

Populating Reactions and Decay Modes

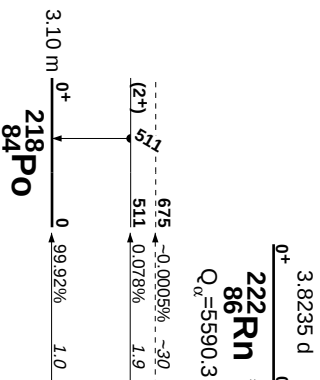
²²²Rn α decay (36Br05, 53Ba29, 56Ma28, 58Wa16, 63Ba62, 71Gr17, 79Ry03)

Levels and γ-ray branchings:

0, 0⁺, 3.10 m, %α=99.980.2, %β=0.020.2
511.2, (2⁻) γ₀ **511.2**

675.5(7)

α from ²¹⁸Po (3.10 m) α decay < for 1α% multiply by 0.999802 >
α₀ **6002.40**9 (†99.9989), α₈₃₇ **5181.2** (†0.0011).



²¹⁸At 85

Δ: 8087.12 S_n: 4371.14 S_p: (5120) Q_{β⁻}: 2883.12 Q_α: 6874.3

Populating Reactions and Decay Modes

²¹⁸Po β⁻ decay (36Br05, 53Ba29, 56Ma28, 58Wa16, 63Ba62, 71Gr17, 79Ry03)

Levels:

0, (2⁻), 1.64 s, %α=99.9, %β=0.1

α from ²¹⁸At (1.6 s) α decay < for 1α% multiply by 0.999 >

α₀ **6746.5** (†3.6), α₈₃ **6694.5** (†90), α₉₅ **6653.5** (†6.4).

²¹⁸Rn 86

Δ: 5204.4 S_n: 6514.5 S_p: 6472.8 Q_α: 7262.620

Populating Reactions and Decay Modes

A ²¹⁸At β⁻ decay (36Br05, 53Ba29, 56Ma28, 58Wa16, 63Ba62, 71Gr17, 79Ry03)

B ²²²Ra α decay (56As38, 56Sm88, 60Be25, 60Si20, 61Ru06, 63Le17, 69Pe17, 74Va28, 75Va2D, 76Ku08, 79Ry03)

Levels and γ-ray branchings:

0, 0⁺, 35.5 ms, [B], %α=100

324.22.5 2⁺, <80 ps, [B] γ₀ **324.22.5** E2

653.1.3, [B] γ₃₂₄ **328.92**

796.7.2, [B] γ₆₅₃ **144.0.5** (†2.7.5) γ₃₂₄ **472.5.1** (†100.5)

839.9.2, [B] γ₃₂₄ **515.6.1** (†60.4) γ₀ **840.2.2** (†100.8)

γ (²¹⁴Po) from ²¹⁸Rn (35 ms) α decay < for 1γ% multiply by 1.0 >
609.31.6 (†0.124.7) E2.

α from ²¹⁸Rn (35 ms) α decay < for 1α% multiply by 1.0 >
α₆₀₉ **6535.4.21** (†0.126.8).

²¹⁸Fr 87

Δ: 7046.5 S_n: 5326.8 S_p: 3890.6

Q_{β⁻}: 410.12 Q_{EC}: 1842.5 Q_α: 8014.320

Populating Reactions and Decay Modes

A ²²²Ac α decay (5.0 s) (64Mc21, 68Ha14, 72ES03, 73BoXL, 79Ry03)

B ²²²Ac α decay (63 s) (72ES03)

Levels:

0, (1⁻), 1.06 ms, [A], %α=100

47.11, [A]

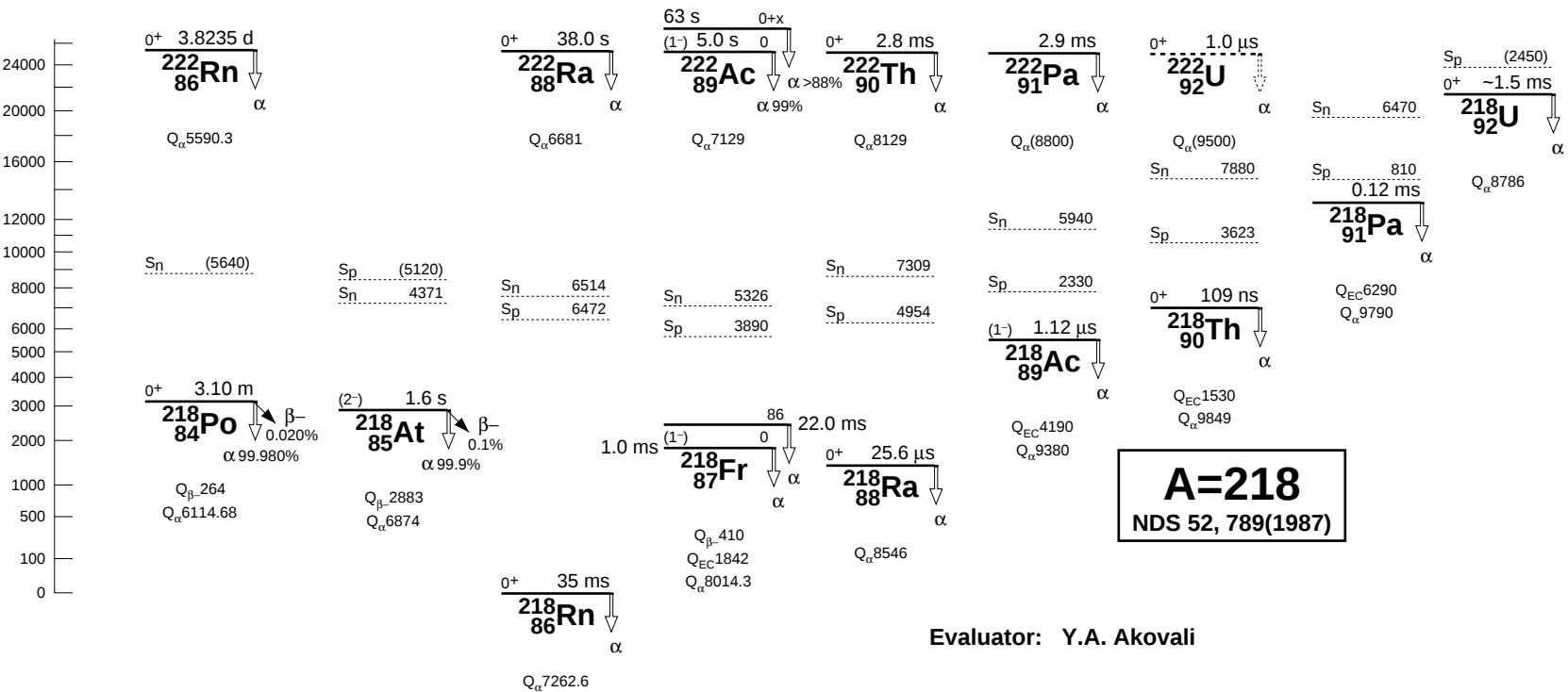
86.8, 22.05 ms, %α<100, %β†=?

14+x.21, [B]

45+x.21, [B]

126+x.21, [B]

207+x.21, [B]
269+x.21, [B]
309+x.21, [B]
564+x.21, [B]



Evaluator: Y.A. Akovali