

¹⁴⁸₆₇Ho (Continued)

0⁺y, 6⁻, 9.59 15 s, [A], %EC+%β⁺=100, %ECp=0.08 1

32.3+y, (5⁻), [A] γ_{0+y} 32.3 (M1,E2)

141.5+y, (6⁻), [A] γ_{32+y} 108.5 (M1,E2) γ_{0+y} 141.5 (M1,E2)

321.3+y, (7⁻), [A] γ_{142+y} 180.2 (M1,E2) γ_{0+y} 321.3 (M1,E2)

694.4+y, (10⁺), 2.35 4 ms, [A], %IT=100 γ_{321+y} 373.1 (E3)

γ from ¹⁴⁸Ho IT decay:

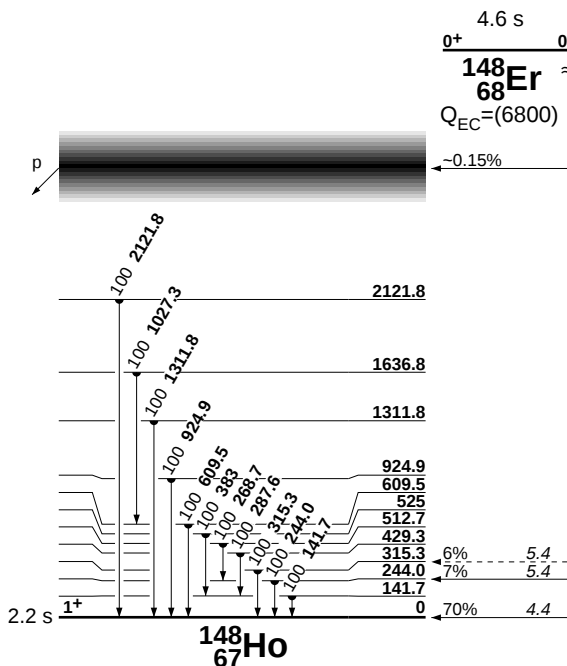
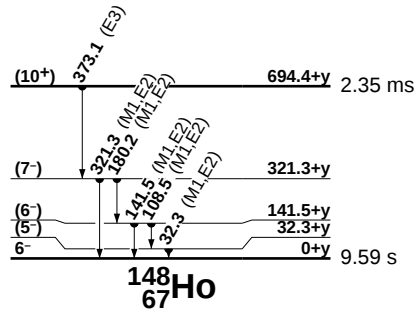
32.3 (M1,E2), 108.5 (M1,E2), 141.5 (M1,E2), 180.2 (M1,E2), 321.3 (M1,E2), 373.1 (E3).

γ(¹⁴⁸Dy) from ¹⁴⁸Ho (9.59 s) EC+β⁺ decay < for Iγ% multiply by 1.0 >

10.5 (†0.49 2), 94.3 2 (†0.44 5) E1, 101.5 3 (†0.11 6) E2, 115.6 3 (†1.30 5), 164.1 3 (†0.37 5), 261.5 5 (†0.27 7), 282.2 5 (†0.20 5), 304.5 2 (†1.50 7) E2, 353.6 4 (†0.54 8), 376.1 5 (†0.57 8), 382.6 2 (†2.76 13) E1, 389.6 2 (†5.11 9) E2, 425.7 4 (†0.42 8), 435.4 6(u) (†0.6 1), 504.3 2 (†18.62 11), 540.5 5(u) (†0.46 11), 542.0 5 (†0.67 11), 567.3 2 (†1.16 8), 583.7 3 (†0.4 1), 620.1 (†2.79 80), 661.3 2 (†58.94 16) E2, 665.8 4 (†1.06 16), 739.5 2 (†5.73 10), 750.0 2 (†3.62 9), 760.4 3(u) (†0.47 7), 765.9 2 (†2.06 10), 917.3 4(u) (†0.32 11), 930.0 3 (†1.34 10), 961.2 3(u) (†0.8 1), 973.6 2 (†1.64 5), 996.0 4(u) (†0.45 11), 1101.0 3 (†2.92 13), 1176.4 6(u) (†1.1 3), 1202.2 4(u) (†0.49 12), 1281.3 2 (†5.66 17), 1307.0 2 (†1.44 13), 1320.0 2 (†2.54 16), 1328.3 5 (†0.79 17), 1391.8 4(u) (†0.71 14), 1397.3 3 (†1.67 17), 1405.9 2 (†2.82 18), 1483.4 2 (†2.60 16), 1500.3 2 (†5.46 13), 1504.3 6(u) (†1.3 2), 1600.4 4(u) (†0.8 2), 1639.4 4 (†2.16 12), 1661.5 8 (†0.51 12), 1677.8 2 (†17.4 11) E2, 1688.3 2 (†82.47 30) E3, 1861.5 4 (†1.18 14), 1939.7 3 (†4.62 17), 2043.4 4 (†0.58 13), 2110.2 4 (†1.12 13), 2284.6 4 (†1.56 13), 2291.4 4 (†1.73 14), 2412.4 4 (†1.94 15), 2600.9 4 (†0.75 11), 2705.0 4 (†1.23 14), 2945.8 10 (†0.27 10), 3073.4 6 (†0.52 11).

γ(¹⁴⁸Dy) from ¹⁴⁸Ho (2.2 s) EC+β⁺ decay < for Iγ% multiply by 1.0 >

1677.7 3 (†7.4 14).



¹⁴⁸₆₈Er

Δ: (-51800) S_n: (12700) S_p: (2800) Q_{EC}: (6800) Q_α: (2600)

Populating Reactions and Decay Modes

A ¹⁴⁸Tm EC decay (82No08)

B ⁹²Mo(⁵⁸Ni,2pγ) E=250 MeV (82No07)

Levels and γ-ray branchings:

0, 0⁺, 4.6 2 s, [AB], %EC+%β⁺=100, %ECp=0.15

646.6 3, (2⁺), [AB] γ₀ 646.6 3 (†100)

1524.0 4, (4⁺), [AB] γ₆₄₇ 877.4 3 (†100)

2254.3 5(?), (5⁻), [AB] γ₁₅₂₄ 730.3 3 (†100)

2526.9 5(?), (6⁺), [AB] γ₁₅₂₄ 1002.9 3 (†100)

2537.3 6, (7⁻), [AB] γ₂₂₅₄ 283.0 3 (†100)

2706.0 7, (7⁻,8⁻), [B] γ₂₅₃₇ 168.7 3 (†100)

2784.4 6, (8⁺), [AB] γ₂₇₀₆ 78.1 (†13) γ₂₅₃₇ 247.1 3 (†29 19) γ₂₅₂₇ 257.5 3 (†100 39)

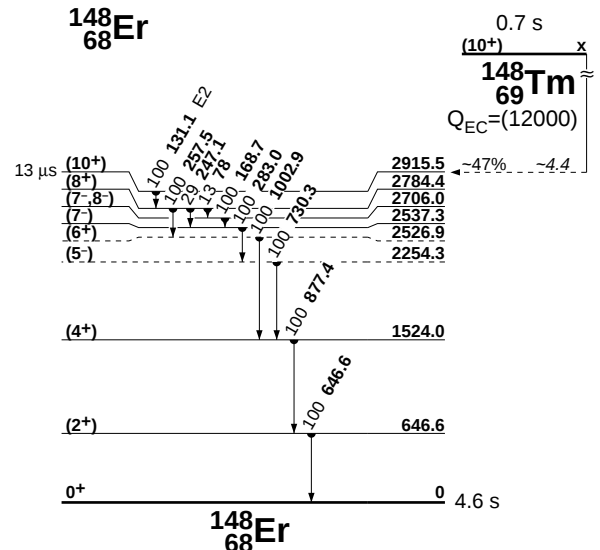
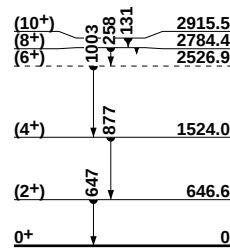
2915.5 7, (10⁺), 13 3 μs, [AB] γ₂₇₈₄ 131.1 3 (†100) E2

γ(¹⁴⁸Ho) from ¹⁴⁸Er (4.6 s) EC+β⁺ decay < for Iγ% multiply by 0.071 >

141.7 1 (†60 3), 244.0 1 (†100 5), 268.7, 287.6 4 (†30 5), 315.3 1 (†97 7), 383.1 (†24 7), 609.5 3 (†81 6), 924.9 4 (†33 7), 1027.3 4 (†28 7), 1311.8 3 (†126 11), 2121.8 5 (†16 5).

γ(¹⁴⁷Dy) from ¹⁴⁸Er (4.6 s) ECp decay:

12.5 (†≈0.3), 21.5 (†3.3 4), 58.0 1 (†33 3) E1, 81.9 1 (†20 1) E2, 92.3 3 (†1.0 3), 151.2 3 (†2.5 5), 197.1 1 (†71 3) M1, 218.6 1 (†5.5 5) (E2), 243.4 3 (†5 1) (E2), 244.1 2 (†7.6 7) (E2), 244.3 2 (†16 3) (M1), 255.2 2 (†19 1) (E1), 256.9 1 (†65 3) (M1), 387.7 1 (†88 3) (E1), 632.1 1 (†35 2) (E1), 677.2 2 (†8.5 7) (E2), 1653.4 2 (†100 4) (E2), 1711.5 2 (†32 2) (M2+E3).



¹⁴⁸₆₉Tm

Δ: (-39800) S_n: (11400) Q_p: (100) Q_{EC}: (12000) Q_α: (2800)

Populating Reactions and Decay Modes

⁹²Mo(⁵⁸Ni,np) (82No08)

Levels and γ-ray branchings:

x, (10⁺), 0.7 2 s, %EC+%β⁺=100

γ(¹⁴⁸Er) from ¹⁴⁸Tm (0.7 s) EC+β⁺ decay < for Iγ% multiply by 1.0 >

131.1 3, 247.1 3(?) (†15 10), 257.5 3 (†52 20), 283.0 3(?) (†46 20), 646.6 3 (†100), 730.3 3 (†35 15), 877.4 3 (†72 25), 1002.9 3 (†55 20).