

Populating Reactions and Decay Modes

A ^{93}Rb β^- decay (70MaZC, 72Am01, 72Mc04, 74Ac04, 75Br03, 77Bi01, 78St02, 78Wo15, 78Wu04, 79Bo26, 80De02, 82Al01, 82Ka03, 83Ia02, 83Ka41, 86Ka20, 88Al42, 88GrZX, 90Ru05, 92Pr03)

B ^{94}Rb β^- n decay (77Re06, 77Ru09, 81Ho07, 82Kr11, 85Gr15, 89BrZl)

Levels and γ -ray branchings:

0, 5/2⁺, 7.423 24 m, [AB], %β⁻=100, μ=-0.7942 5, Q=+0.265 19

213.431 $10, ^+$, 4.63 ns, [AB] γ , **213.429** 11 ($\dagger$, 100) E2

432.604 ²⁴, ⁺, <0.3 ns, [AB] γ_{213} **219.166** ($\dagger_{\gamma}$ 15.89) M1,E2 γ_0 **432.613**
($\dagger$ 100.05) M1,E2

986.115, [AB] γ_0 986.056 ($\dagger_{100}$)

1142.55 4, [AB] γ_{433} **709.95** 5 ($\dagger_{\gamma}$ 100 7) γ_{213} **929.04** 9 ($\dagger_{\gamma}$ 7.9 6) γ_0 **1142.58** 12
($\dagger$ 5.9 5)

$$\mathbf{1148.20}_6, [AB] \gamma_{213} \mathbf{934.70}_{10} (\dagger_{20.9\,16}) \gamma_0 \mathbf{1148.18}_8 (\dagger_{100\,6})$$

1238.25 ⁷, [AB] γ_0 **1238.30** ⁸ ($\dagger_{\gamma}$ 100)

1385.31 $6, [AB] \gamma_0$ **1385.21** $8 \left(\dagger \frac{1}{\gamma} 100 \right)$

$$1529.32^{10}, [AB] \gamma_{433} 1096.71^9 (\dagger_{100})$$
$$1562.95^{9, [A]} \gamma_{213} 1349.67^{21} (\dagger_{\nu} 14.0^{17}) \gamma_0 1562.91^{11} (\dagger_{\nu} 100^7)$$

1779.78 8, [A] γ_{086} **793.65** 6 ($\dagger_{100} 5$) γ_{213} **1566.29** ($\dagger_{63}$)

$$1808.50^{+0.06}_{-0.06} 7, [A] \gamma_{086} 822.41^{+0.02}_{-0.02} 22 (\dagger_{\gamma_{011}} 6.0 \ 11) \gamma_0 1808.50^{+0.05}_{-0.05} 10 (\dagger_{\gamma_{105}} 100 \ 5)$$
$$1869.64^{+7.0}_{-7.0} [A] \gamma_{432} 1437.10^{+16.0}_{-16.0} (\dagger 22.0^{+19.0}_{-19.0}) \gamma_0 1869.69^{+11.0}_{-11.0} (\dagger 100.6)$$
$$1910.86^9, [A] \gamma_{1143}^{433} 768.36^{23} (\dagger 10.0^{17}) \gamma_0^{1910.72^{12}} (\dagger 100^6)$$
$$2045.55^9, [A] \gamma_{086}^{1143} 1059.43 \left(\dagger_{\sim 3.8}^{\sim 7} \right) \gamma_{432}^{0} 1612.87^{11} \left(\dagger_{\sim 100}^{\sim 6} \right)$$
$$2054.02\text{ }^9_9[A] \gamma_{1149}^{900} 905.63\text{ }^3_3 (\dagger_{4.910}^{433}) \gamma_0^{433} 2054.06\text{ }^{12}_{12} (\dagger_{1005}^{1005})$$

2117.46¹¹, [A] γ_{432}^{1148} 1684.76¹³ († 100)

2141.07₁₁, [A] γ_{213}^{433} 1927.64₁₂ ($\dagger_{\gamma}^{100}$)

$$2273.02^{12}_{12}, [A] \gamma_{1238}^{213} 1035.15 (\dagger_{\gamma}^{35} 11) \gamma_{1143}^{1130.12} 16 (\dagger_{\gamma}^{100} 11) \\ \gamma_{\infty} 1287.05 (\dagger^{58} 20)$$
$$2292.88^{7, [A]} \gamma_{1122} 1054.73^{(\dagger 11.1\ 23)} \gamma_{1142} 1150.38^{13 (\dagger 87\ 8)}$$
$$\gamma_{\text{rec}} 1306.92^{19} (\dagger 213) \quad \gamma_0 2292.80^{13} (\dagger 1006)$$
$$2319.09^8, [A] \gamma_{2300} 1332.97^8 (\dagger 100 10) \gamma_{1200} 1886.63 (\dagger 13.6 21)$$

2351.50¹¹, [A] γ_{200}^{986} **1365.36**¹¹ ($\dagger 1007$) γ_{122}^{433} **1919.04** ($\dagger 336$)

2456.47 ¹⁹, [A] γ_{2222} **163.43** ($\dagger$ 94 21) γ_{1222} **2023.94** ($\dagger$ 100 21)

$$2459.75^{13}, [A] \gamma_{2293}^{1473.26} (\dagger 238) \gamma_{433}^{2026.88} {}^{25} (\dagger 100^{13})$$
$$2553.80 \text{ g, } [A]_{\gamma_{1320}}^{986} \mathbf{1315.64}^{10} (\dagger 1007) \gamma_{1140}^{433} \mathbf{1405.37}^{22} (\dagger 263)$$

2621.38 ¹⁴, [A] γ_{1142} **1479.13** ($\dagger 163$) γ_{286} **1635.20** ¹⁵ ($\dagger 1008$)

2737.24, [A] $\gamma_{2737.24}$ 2523.75 († 100)

$$2770.71^{13, [A]} \gamma_{1870} 901.08^{18} (\dagger_{\gamma}^{89\ 11}) \gamma_{1780} 990.9^3 (\dagger_{\gamma}^{92\ 18}) \gamma_{213} 2557.54$$
$$2773.99^{25}, [A] \gamma_{1395} 1388.76 (\dagger_{100})$$
