208\(^{2}\)Pb (Continued)

432.7+x, (15), [H] \(\gamma_{4091}=21.8\) (\(\tau_{100}\)) D
445.3+x, (16), [H] \(\gamma_{4233}=12.5\) \(\gamma_{4901}=35.4\) (\(\tau_{100}\)) D
432.4+x, (16), [H] \(\gamma_{4324}=129.7\) (\(\tau_{100}\)) D
5241.9+x, (17), [H] \(\gamma_{4444}=796.6\) (\(\tau_{50}\)) D \(\gamma_{4091}=1151.0\) (\(\tau_{100}\)) D
5250.9+x, (18), [H] \(\gamma_{4091}=1160.0\) (\(\tau_{100}\)) D
5241.9+y, (19), [H] \(\gamma_{4242}=202.5\) (\(\tau_{100}\)) D
5444.4+y, (20), [H] \(\gamma_{4284}=689.2\) (\(\tau_{100}\)) D
6082.4+y, (21), [H] \(\gamma_{4284}=840.5\) (\(\tau_{100}\)) D

\(\gamma\) from \(^{208}\)Pb (3.53 h) IT decay for \(\gamma\) with \(\tau_{\gamma}\) multiply by \(0.498\times 10^{-6}\)

124.75 (\(\tau_{11.1}\)), 129.21 (\(\tau_{0.083}\)) E4, 240.31 (\(\tau_{0.521}\)) M1, 291.93 (\(\tau_{0.062}\)) (M1), 417.32 (\(\tau_{0.88}\), 422.12 (\(\tau_{1.729}\)), E2, 532.34 (\(\tau_{0.113}\)) (M1), 547.42 (\(\tau_{0.258}\)), E5, 657.49 (\(\tau_{1.655}\)), E1, 662.55 (\(\tau_{1.025}\)), E2, 786.99 (\(\tau_{1.0}) E4).

\(\gamma\) (\(\gamma\) IT) from \(^{208}\)Pb (3.53 h) EC decay for \(\gamma\) with \(\tau_{\gamma}\) multiply by \(0.507\times 10^{-6}\)

148.8 (\(\tau_{0.451}\)), M1, 211.92 (\(\tau_{1.53}\)), M1, 241.1 (\(\tau_{1.73}\)), E2, 335.55 (\(\tau_{0.454}\)), M1, 389.97 (\(\tau_{12.4}\)), M1, 459.72 (\(\tau_{17.3}\)), E3, 490.47 (\(\tau_{18.4}\)), E2, 601.95 (\(\tau_{2.1}\)), E3.

\(\alpha\) from \(^{208}\)Pb (5.25 \times 10^{10}) \(\alpha\) decay for \(\alpha\) with \(\tau_{\alpha}\) multiply by \(0.01\)

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\(\Delta t=\)20790.90 \(S_{l}=\)7410.60 \(S_{G}=\)2790.60 \(O_{Ec}=\)5160.50 \(O_{B}=\)4290.90

Populating Reactions and Decay Modes

A \(^{208}\)Pb EC decay (70Daa, 70Da6, 71KuZ, 77Vay, 83KuZ, 84KuZ)
B \(^{208}\)Pb \(\alpha\) decay (61Fo4u, 61La2o, 63Ho18, 64Th07, 68G012, 79Ry03, 81Vaa7, 81Vaa9)
C \(^{207}\)Tl(\(\chi_{5}\)) \(\gamma\) (80K06, 81Th03, 82Hu07)
D \(^{199}\)Pt(\(\chi_{5}\)) \(\gamma\) (35Cl02)

Levels and \(\gamma\)-ray branchings:

\(0.5^+\), 1.725 h, \(\{ABC\}, \%EC\%=90\%\), \%\(\alpha\)=1\%\times 10^{-5}

7.4, \(\{ABC\}, \{BC\}, \{CA\}
4.4, \(\{B\}, \gamma_{41.2}\) (\(\tau_{100}\)), (M1)
72.3, 5.5, \(\{B\}, \gamma_{5.5}\) (\(\tau_{100}\)), M1
605, \(\{B\}, \gamma_{597.8}\) (\(\tau_{100}\)) E1
615, \(\{10\}, 3.04\) \(\mu\), \(\{CD\}, \mu=2.54\), Q=0.106 13 \(\gamma_{50}=106\) (\(\tau_{100}\)) E2

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Yrast band

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202\(^{83}\)Bi

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202\(^{83}\)Bi

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\(\Delta t=-20790.90 \ S_{l}=7410.60 \ S_{G}=2790.60 \ O_{Ec}=5160.50 \ O_{B}=4290.90\)