^{88}Rb IT decay (123 ns) 2009Po10,2000PoZZ

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	E. A. Mccutchan and A. A. Sonzogni	NDS 115, 135 (2014)	1-Nov-2013

Parent: ^{88}Rb: E=1373.8 *3*; $J^\pi=(7^+)$; $T_{1/2}$=123 ns *13*; %IT decay=100.0

All data are from the Adopted Levels, Gammas, except where noted.

α: Additional information 1.

^{88}Rb Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	2^-	17.773 min *18*	
27.515 *9*	$(3)^-$		
268.24 *3*	4^-		
340.40 *22*	(4^-)		
726.51 *23*	(5^-)		
1373.8 *3*	(7^+)	123 ns *13*	$T_{1/2}$: from $\gamma\gamma$(t) (2009Po10). Other: ≈100 ns (2000PoZZ).

$\gamma(^{88}$Rb)

E_γ	I_γ †‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α	$I_{(\gamma+ce)}$ ‡	Comments
27.513 *14*		27.515	$(3)^-$	0.0	2^-	M1(+E2)	0.07 *+3−7*	6.3 *5*	96 *8*	ce(K)/(γ+ce)=0.74 *5*; ce(L)/(γ+ce)=0.106 *24*; ce(M)/(γ+ce)=0.018 *5*; ce(N)/(γ+ce)=0.0019 *4*; ce(O)/(γ+ce)=6.5×10^{-5} *5*; α(K)=5.4 *3*; α(L)=0.78 *19*; α(M)=0.13 *3*; α(N)=0.014 *3*; α(O)=0.000476 *18*
240.71 *4*	55 *6*	268.24	4^-	27.515	$(3)^-$					
313.0 *3*	41 *5*	340.40	(4^-)	27.515	$(3)^-$	D				
339.8 *5*	4 *2*	340.40	(4^-)	0.0	2^-					
386.0 *3*	46 *5*	726.51	(5^-)	340.40	(4^-)					
458.3 *3*	46 *5*	726.51	(5^-)	268.24	4^-					
647.2 *3*	91 *9*	1373.8	(7^+)	726.51	(5^-)	(M2)		0.00374		α(K)=0.00330 *5*; α(L)=0.000368 *6*; α(M)=6.08×10^{-5} *9*; α(N)=6.90×10^{-6} *10*; α(O)=2.97×10^{-7} *5*
1105.9 *7*	9 *3*	1373.8	(7^+)	268.24	4^-	[E3]		8.55×10^{-4}		α(K)=0.000756 *11*; α(L)=8.36×10^{-5} *12*; α(M)=1.381×10^{-5} *20*; α(N)=1.557×10^{-6} *22*; α(O)=6.59×10^{-8} *10*

† Calculated based on 100% feeding of the 1374-keV level and branching ratios from the Adopted Gammas.

‡ Absolute intensity per 100 decays.

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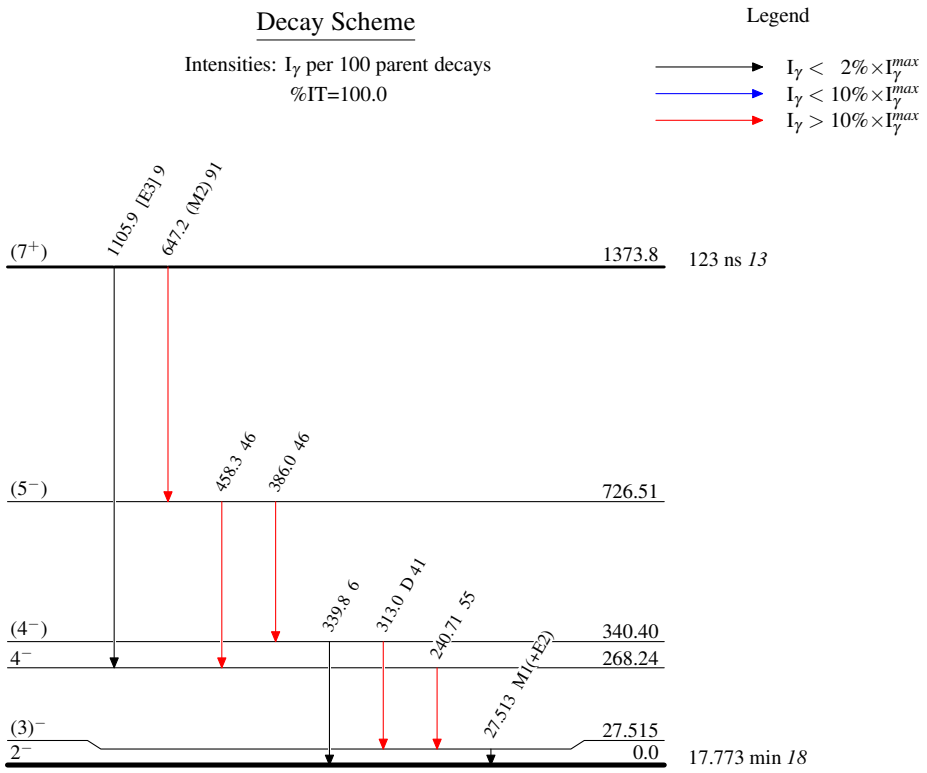
Decay Scheme

Intensities: I_γ per 100 parent decays

%IT=100.0



$^{88}_{37}Rb_{51}$