^{104}Rh IT decay (4.34 min)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	NDS 108,2035 (2007)	30-Mar-2007

Parent: ^{104}Rh: E=128.9679 *5*; $J^\pi=5^+$; $T_{1/2}$=4.34 min *3*; %IT decay=99.87 *1*
See also ^{104}Rh β^- decay.
$\gamma\gamma$-measurements are from 1963Gr01, 1963Wi10, 1964Es04, 1965Sc14.

^{104}Rh Levels

E(level)	J^π	$T_{1/2}$
0.0	1^+	42.3 s
51.4225 *15*	2^-	2.6 ns *2*
97.1137 *28*	2^+	
128.956 *10*	5^+	4.34 min *5*

$\gamma(^{104}Rh)$

Iγ normalization: from Σ I(γ+ce) to g.s.=99.87.

E_γ [†]	I_γ [‡&]	E_i(level)	J_i^π	E_f	J_f^π	Mult. [@]	α [#]	Comments
31.842	0.0012 *1*	128.956	5^+	97.1137	2^+	M3	6846	B(M3)(W.u.)=0.092 *23* E_γ: from level energies and (ce)(γ)-coincidences by 1965Sc14. I_γ: from intensity balance and α.
51.4225 *15*	100	51.4225	2^-	0.0	1^+	E1	0.98	α(K)exp=0.85; α(L)=0.107; α(M+..)=0.026 B(E1)(W.u.)=0.00044 *4*
77.533 *10*	4.3 *1*	128.956	5^+	51.4225	2^-	E3	44.9	α(K)exp=18.9; α(L)=20.6; α(M+..)=5.4 B(E3)(W.u.)=0.0090 *6* I_γ: from intensity balance and α. Iγ=5.1 *3* reported by 1972Si08.
97.1137 *28*	6.2 *3*	97.1137	2^+	0.0	1^+	M1	0.38	α(K)exp=0.33; α(L)=0.040; α(M+..)=0.0098

[†] From ^{103}Rh(n,γ).
[‡] From 1972Si08. Others: 1964Es04, 1965Sc14.
[#] Theoretical values from 1968Ha52 using multipolarities deduced from Xγ-coincidences, intensity balances, and lifetimes (see 1962Be30,1963Gr01,1963Wi10,1964Es04,1965Sc14). For ce-measurements see 1953Jo09, 1965Sc14, and 1966Bi01.
[@] From ce measurements.
[&] For absolute intensity per 100 decays, multiply by 0.48277 *5*.

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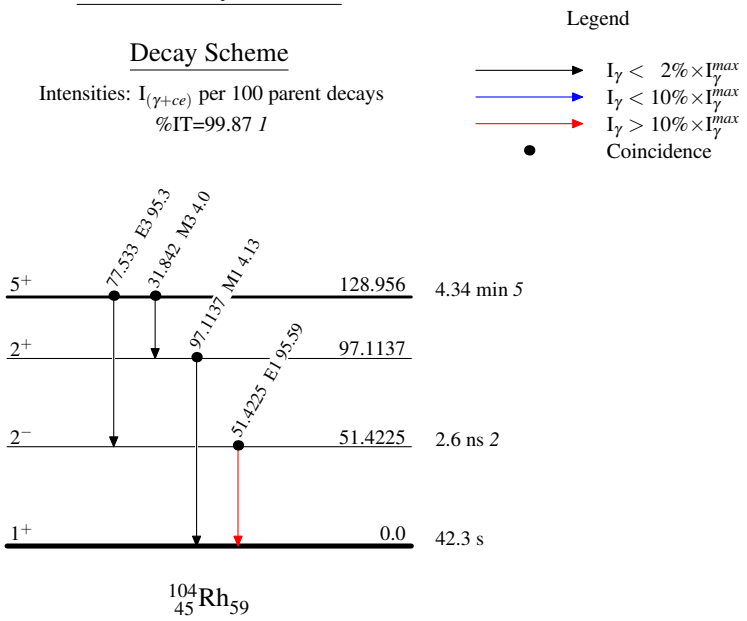
Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays

%IT=99.87 *1*



$^{104}_{45}Rh_{59}$