^{97}Rh IT decay 1974Oh07,1975Pl05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 111, 525 (2010)	19-Nov-2009

Parent: ^{97}Rh: E=258.76 *18*; $J^\pi=1/2^-$; $T_{1/2}$=46.2 min *16*; %IT decay=5.9 *6*

^{97}Rh-ADOPTED values.

^{97}Rh-%IT decay: 5.9 *6* from weighted average of Iγ(258.76) of 1974Oh07, 1975Pl05 in the ^{97}Rh ε (46.2 min) decay spectrum and α(258.76γ)=2.57.

^{97}Rh Levels

E(level)	J^π †	$T_{1/2}$ †
0.0	$9/2^+$	30.7 min *6*
258.76 *18*	$1/2^-$	46.2 min *16*

† From Adopted Levels.

γ(^{97}Rh)

E_γ †	I_γ †‡#	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α@	Comments
258.76 *18*	2.8 *3*	258.76	$1/2^-$	0.0	$9/2^+$	M4	2.57	α(K)=2.03 *3*; α(L)=0.440 *7*; α(M)=0.0862 *13*; α(N+..)=0.01439 *21* α(N)=0.01388 *20*; α(O)=0.000508 *8* Mult.: from α(K)exp=2.1 *4*, K(L+M)=3.8 (1974Oh07).

† Weighted average of measurements by 1974Oh07, 1975Pl05.

‡ Relative to I(2245.6γ in ^{97}Rh)=25.0.

For absolute intensity per 100 decays, multiply by 0.59 *6*.

@ Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

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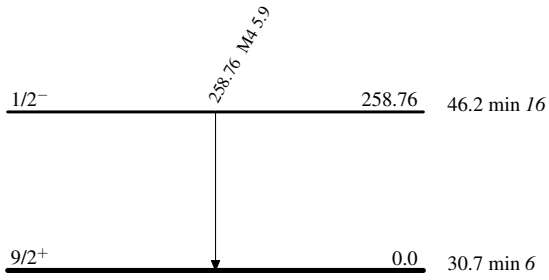
Decay Scheme

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

%IT=5.9 *6*



$^{97}_{45}Rh_{52}$