^{81}Rb IT decay (30.5 min) 1977Li14,1981FrZY,1956Do52

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia	NDS 199,271 (2025)	1-Sep-2024

Parent: ^{81}Rb: E=86.31 *6*; $J^\pi=9/2^+$; $T_{1/2}$=30.5 min *3*; %IT decay=97.9 *4*
^{81}Rb-%IT decay: from Adopted Levels. See also ^{81}Rb ε decay (30.5 min).

^{81}Rb Levels

E(level)	J^π†	$T_{1/2}$†	Comments
0	$3/2^-$	4.571 h *4*	
86.3 *2*	$9/2^+$	30.5 min *3*	E(level): from Eγ.

† From Adopted Levels.

γ(^{81}Rb)

Eγ	Iγ‡	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α†	I$_{(\gamma+ce)}$‡	Comments
86.3 *2*	5.25 *9*	86.3	$9/2^+$	0	$3/2^-$	E3	17.66 *31*	100	α(K)=12.12 *20*; α(L)=4.68 *9*; α(M)=0.790 *15* α(N)=0.0739 *14*; α(O)=0.000825 *14* Eγ: Weighted average of 86.2 keV *2* (1977Li14) and 86.6 keV *5* (1981FrZY). Iγ: From (97.9 *4*)/(1+17.66 *31*). Mult.: From α(K)exp/(α(L+...)exp+α(M)exp)= 2.57 *30* (1956Do52). [α(K)/(α(L)+α(M))=2.22 (E3 theory)].

† Additional information 1.
‡ For absolute intensity per 100 decays, multiply by 0.979 *4*.

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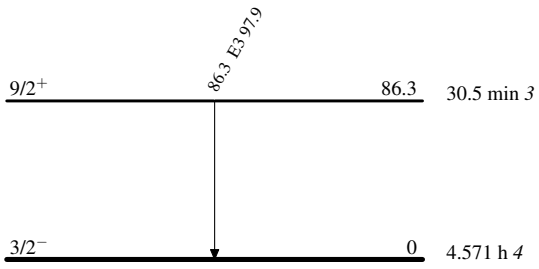
Decay Scheme

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

%IT=97.9 *4*



$^{81}_{37}Rb_{44}$