^{95}Nb IT decay (3.61 d) 1969Fo01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. K. Basu, G. Mukherjee, A. A. Sonzogni	NDS 111, 2555 (2010)	30-Jun-2009

Parent: ^{95}Nb: E=235.69 *2*; $J^{\pi}=1/2^{-}$; $T_{1/2}$=3.61 d *3*; %IT decay=94.4 *6*

Measurements include γ's (Ge(Li)) and ce(K)(236γ), ce(K)(t), and ce(K)/(γ+ce)(236γ) (β spect) for ^{95}Zr and ^{95}Nb sources (1969Fo01); other: 1983Lu03.

α: Additional information 1.

^{95}Nb Levels

E(level)	J^{π}†	$T_{1/2}$†
0.0	$9/2^{+}$	34.991 d *8*
235.690 *20*	$1/2^{-}$	3.61 d *3*

† From the ^{95}Nb Adopted Levels.

$\gamma(^{95}Nb)$

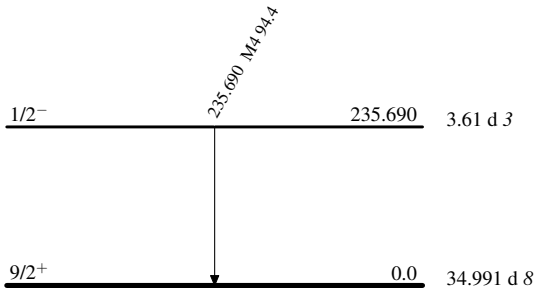
E_γ	I_γ†	E_i(level)	J_i^{π}	E_f	J_f^{π}	Mult.	α	$I_{(\gamma+ce)}$†	Comments
235.690 *20*	26.3 *8*	235.690	$1/2^{-}$	0.0	$9/2^{+}$	M4	2.78	100	α(K)exp=2.36 *16*; ce(K)/(γ+ce)=0.592 *5*; ce(L)/(γ+ce)=0.1184 *19*; ce(M)/(γ+ce)=0.0218 *4*; ce(N)/(γ+ce)=0.00307 *6* ce(O)/(γ+ce)=0.0001311 *23* E_γ: from 1976Ho04. Mult.: from α(K)exp and K/LMN. α: α(M4, theory)×0.975 *5* as suggested by 1990Ne01. α(K)exp: Weighted av of 2.36 *22* and 2.37 *23* from ce(K)(236γ)/ce(K)(^{152}Sm 122γ)=3.45 *30* and ce(K)(236γ)/ce(K)(^{152}Gd 344γ)=76.5 *68* (1969Fo01) and α(K)(^{152}Sm 122γ)=0.685 and α(K)(^{152}Gd 344γ)=0.031 (1989Pe11).

† For absolute intensity per 100 decays, multiply by 0.944 *6*.

^{95}Nb IT decay (3.61 d) 1969Fo01

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=94.4 *6*



$^{95}_{41}Nb_{54}$