

^{94}Nb IT decay (6.263 min) [1972De67,1962Ki08](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni		NDS 107, 2423 (2006)	1-Jan-2006

Parent: ^{94}Nb : E=40.892 12; $J^\pi=3^+$; $T_{1/2}=6.263$ min 4; %IT decay=99.50 6

 ^{94}Nb Levels

[1972De67](#): Si(Li), FWHM=290 eV at 6.4 keV. Measured E_γ .

[1962Ki08](#): NaI. Measured I(K x ray), I_γ , $\gamma\gamma$.

E(level)	J^π [†]	$T_{1/2}$ [†]	Comments
0.0	6^+	2.03×10^4 y 16	
40.892 3	3^+	6.263 min 4	% β^- =0.50 6; %IT=99.50 6 (1962Ki08)

[†] From Adopted Levels.

 $\gamma(^{94}\text{Nb})$

E_γ [†]	I_γ [#]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult. [‡]	α ^{&}	$I_{(\gamma+ce)}$ [@]	Comments
40.94 3	100	40.892	3^+	0.0	6^+	M3	1360	100	$\alpha(\text{K})_{\text{exp}}=710$ 37 $\alpha=1360$; $\alpha(\text{K})=781.214$; $\alpha(\text{L})=460.018$; $\alpha(\text{M})=89.554$ $\alpha(\text{K})_{\text{exp}}$: Others: 800 50 (1961Ci07), 570 100 (1962Ki08), 1600 350 (1962Yi01), 780 70 (1969SaZP , unpublished), 970 150 (1971Ge11). All values are from measurements of I(K x ray)/ $I_\gamma(40.9\gamma)$ corrected by 1985Mu05 for $\omega(\text{K})=0.747$ (1979Kr13). $\alpha(\text{K})_{\text{exp}}/\alpha(\text{L}+\dots)_{\text{exp}}$ from 1962Ki08 . Other: $\alpha(\text{K})_{\text{exp}}:\alpha(\text{L})_{\text{exp}}:\alpha(\text{M})_{\text{exp}}=31:100:36$ (1950Ca10).

[†] From [1972De67](#).

[‡] From $\alpha(\text{K})_{\text{exp}}$.

[#] For absolute intensity per 100 decays, multiply by 7.31×10^{-4} 22.

[@] For absolute intensity per 100 decays, multiply by 0.9950 6.

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

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=99.50 6

