

^{97}Nb IT decay (58.7 s) 1992KaZM

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

Parent: ^{97}Nb : E=743.35 3; $J^\pi=1/2^-$; $T_{1/2}=58.7$ s 18; %IT decay=100.0

Other: 1990KaZW.

 ^{97}Nb Levels

E(level)	J^π^\dagger	$T_{1/2}$	Comments
0.0	9/2 ⁺		
743.35 3	1/2 ⁻	58.7 s 18	%IT=100 E(level), ΔE : adopted values. $T_{1/2}$: from 1992KaZM; other: 52.7 s 18 (1990KaZW). %IT: no β^- decay has been reported. The expected limits for β^- decay to levels in ^{97}Mo are as follows: <3.0% to 480.90 3/2 ⁺ level, <2.0% to 679.59 1/2 ⁺ level, <1.8% to 720.92 3/2 ⁺ level, etc, for first forbidden transitions based on $\log ft>5.9$; <12% to 1870 3/2 ⁻ level, <3.9% to 2092.1 3/2 ⁻ level, <1.1% to 2267 1/2 ⁻ , 3/2 ⁻ level, etc, for allowed transitions based on $\log ft>3.6$.

[†] From Adopted Levels.

 $\gamma(^{97}\text{Nb})$

Production: $^{97}\text{Mo}(n,p\gamma)$; E=th.

E_γ	I_γ^\dagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α^\ddagger	Comments
743.36 3	100	743.35	1/2 ⁻	0.0	9/2 ⁺	[M4]	0.0210	$E_\gamma, \Delta E$: adopted values.

[†] For absolute intensity per 100 decays, multiply by 0.9790 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 decays through this branch
%IT=100.0

