^{91}Y IT decay (49.71 min)   1969Kn01

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 114, 1293 (2013)	1-Sep-2013

Parent: ^{91}Y: E=555.58 *5*; J$^{\pi}$=9/2^{+}; T$_{1/2}$=49.71 min *4*; %IT decay=100.0
^{91}Y-E,J$^{\pi}$,T$_{1/2}$: From Adopted Levels.
Other: 1953Am08.

^{91}Y Levels

E(level)†	J$^{\pi\ddagger}$	T$_{1/2}$	Comments
0	1/2^{-}	58.51 d *6*	T$_{1/2}$: from Adopted Levels.
555.57 *5*	9/2^{+}	49.71 min *4*	%IT=100
			%IT: β^{-} decay searched for, but not observed (1953Am08). 1953Am08 conclude %β^{-} does not exceed 1.5%.
			T$_{1/2}$: From 1969Kn01.

† From Eγ.
‡ From Adopted Levels.

γ(^{91}Y)

Iγ normalization: assuming Ti(556γ)=100.

E$_{\gamma}$†	I$_{\gamma}$$^{\#}$	E$_{i}$(level)	J$_{i}^{\pi}$	E$_{f}$	J$_{f}^{\pi}$	Mult.‡	$\alpha$$^{@}$	Comments
555.57 *5*	100	555.57	9/2^{+}	0	1/2^{-}	M4	0.0531	α(K)=0.0457 *7*; α(L)=0.00616 *9*; α(M)=0.001070 *15*; α(N+..)=0.0001506 *21* α(N)=0.0001416 *20*; α(O)=8.95×10^{-6} *13*

† From 1969Kn01.
‡ From Adopted Gammas.
$^{\#}$ For absolute intensity per 100 decays, multiply by 0.950 *3*.
$^{@}$ 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=100.0

9/2⁺ ——————————————— 555.57   49.71 min *4*

1/2⁻ ——————————————— 0   58.51 d *6*

${}^{91}_{39}\text{Y}_{52}$

555.57 M4 100.0