

⁹⁴Y IT decay [1999Ge01](#)

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

Parent: ⁹⁴Y: E=1202.3; J^π=(5⁺); T_{1/2}=1.35 μs 2; %IT decay=100
[1999Ge01](#): ²⁴¹Pu(n,F), E=thermal; measured E_γ, I_γ(t), deduced isomer decay scheme. Others: [1977SeZJ](#), [1976SeZN](#).

⁹⁴Y Levels

E(level) [‡]	J ^π [†]	T _{1/2}	Comments
0.0	2 ⁻	18.7 min 1	%β ⁻ =100
432.3	(3 ⁻)		
1202.3	(5 ⁺)	1.35 μs 2	%IT=100 T _{1/2} : from γ(t), other: 1.36 μs 20 (1977SeZJ , 1976SeZN).

[†] From Adopted Levels.
[‡] From least squares fit to E_γ assuming Δ E_γ=1 keV.

γ(⁹⁴Y)

E _γ	I _γ [‡]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [†]
432.2	85	432.3	(3 ⁻)	0.0	2 ⁻	
769.9	85	1202.3	(5 ⁺)	432.3	(3 ⁻)	(M2)
1202.4	15	1202.3	(5 ⁺)	0.0	2 ⁻	(E3)

[†] From reduced γ transition rates, compared with shell-model analysis and comparisons with nearby nuclei.
[‡] Absolute intensity per 100 decays.

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Decay Scheme

Legend

 Intensities: $I_{(\gamma+ce)}$ per 100 decays through this branch

%IT=100

- $I_{\gamma} < 2\% \times I_{\gamma}^{max}$
- $I_{\gamma} < 10\% \times I_{\gamma}^{max}$
- $I_{\gamma} > 10\% \times I_{\gamma}^{max}$

