

²⁴⁰Np IT decay [1981Hs02](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	C. Morse	NDS 206,359 (2025)	27-Sep-2024

Parent: ²⁴⁰Np: E=x; J^π=(1⁺); T_{1/2}=7.22 min 2; %IT decay=0.12 I
²⁴⁰Np-T_{1/2}: from [1981Hs02](#). Others: 7.3 min 3 ([1953Kn23](#)), 7.50 min 6 ([1966Qa01](#)).
²⁴⁰Np-%IT decay: From [1981Hs02](#) based on fractional decay to the ground state by observing growth and decay of 566.3γ (the strongest transition and the intensity of the 973.9γ following the decay of 61.9-min ²⁴⁰Np).
[1981Hs02](#): Source obtained from chemical separation of Pu and its decay products including ²⁴⁰Np and ^{240m}Np. Measured γ ray spectrum from decay of 7.22-min ^{240m}Np in secular equilibrium with its 14.1-h ²⁴⁰U parent.
Others: [1966Qa01](#), [1953Kn23](#).

²⁴⁰Np Levels

E(level)	J ^π [†]	T _{1/2}	Comments
0	(5 ⁺)		
x	(1 ⁺)	7.22 min 2	%IT=0.12 I (1981Hs02) E(level): x≈20 (1981Hs02).

[†] From Adopted Levels.