

⁸¹Kr IT decay

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	M. Shamsuzzoha Basunia		NDS 199,271 (2025)	1-Sep-2024

Parent: ⁸¹Kr: E=190.53 4; J^π=1/2⁻; T_{1/2}=13.10 s 2; %IT decay=99.9975 4

⁸¹Kr-%IT decay: from measured ε branching=2.5×10⁻³% 4 for ⁸¹Kr (13 s).

⁸¹Kr Levels

E(level) [†]	J ^π [†]	T _{1/2} [†]
0	7/2 ⁺	2.13×10 ⁵ y +16-26
190.53 4	1/2 ⁻	13.10 s 2

[†] From Adopted Levels.

γ(⁸¹Kr)

E _γ [‡]	I _γ [@]	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [#]	α [†]	I _(γ+ce) [@]	Comments
190.44 7	67.7 3	190.53	1/2 ⁻	0	7/2 ⁺	E3	0.479 7	100	ce(K)/(γ+ce)=0.2694 29; ce(L)/(γ+ce)=0.0460 7; ce(M)/(γ+ce)=0.00749 11 ce(N)/(γ+ce)=0.000665 10 α(K)=0.398 6; α(L)=0.0680 10; α(M)=0.01108 16 α(N)=0.000983 14 I _γ : from I(γ+ce)=100 and α. Mult.: α(K)exp/(α(L+...)exp+α(M)exp)=4.7 1 (2005Ka46, 2005Ka39), 4.53 3 from measured β and ce spectra (1975Va24), 5.16 30 (1956Do52), 3.6 5 (1969Ha03). α(exp)=0.54 7 (1956Do52). α(K)exp=0.50 7 (2005Ka46, 2005Ka39).

[†] Additional information 1.

[‡] From Adopted Gammas.

[#] From α(exp).

[@] For absolute intensity per 100 decays, multiply by .999975 4.

 ${}^{81}\text{Kr}$ IT decay

Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=99.9975 4

