

⁸⁰Y IT decay (4.8 s) 2001No07

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh	NDS 105, 223 (2005)	22-Jun-2005

Parent: ⁸⁰Y: E=228.5 I; J^π=(1⁻); T_{1/2}=4.8 s 3; %IT decay=81 2
³²S⁷⁺ (E= 150 MeV) on ⁵⁴Fe, mass separation, measured K x ray, γ, ce.

⁸⁰Y Levels

E(level)	J ^π †	T _{1/2} †	Comments
0.0	(4 ⁻)		
228.5 I	(1 ⁻)	4.8 s 3	%IT=81 2; %ε+%β ⁺ =19 2

† From Adopted Levels.

γ(⁸⁰Y)

E _γ	E _i (level)	J _i ^π	E _f	J _f ^π	Mult.	δ	α [†]	Comments
228.5 I	228.5	(1 ⁻)	0.0	(4 ⁻)	M3(+E4)	<0.05	0.53	α(K)exp=0.50 7 (2001No07) α(K)=0.51 7; α(L)=0.09 3; α(N+..)=0.0027 7 δ: α(K)exp gives δ<0.65; but RUL=100 for E4 restricts δ<0.05. Additional information 1.

† Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

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Decay Scheme

%IT=81 2

