

$^{77}\text{Ge IT decay (53.7 s)}$ [1970Me20](#),[1970Im01](#)

Type	Author	Citation	History Literature Cutoff Date
Full Evaluation	Balraj Singh	ENSDF	30-Sep-2020

Parent: ^{77}Ge : E=159.7 I ; $J^\pi=1/2^-$; $T_{1/2}=53.7$ s 6; %IT decay=19 2 $^{77}\text{Ge Levels}$

E(level)	$J^\pi \dagger$	$T_{1/2} \dagger$
0.0	$7/2^+$	11.211 h 3
159.7 I	$1/2^-$	53.7 s 6

[†] From the Adopted Levels. $\gamma(^{77}\text{Ge})$ I γ normalization: I(γ +ce)(215 γ)/I(γ +ce)(159 γ)=1.13 3 ([1969Im02](#)) and I(γ +ce)(215 γ)/I β =0.268 27 ([1970Im01](#)).

E γ	I $\gamma \dagger$	E i (level)	J i^π	E f	J f^π	Mult.	$\alpha \ddagger$	Comments
159.7 I	48 I	159.7	$1/2^-$	0.0	$7/2^+$	(E3)	0.836	$\alpha(K)=0.709$ 11; $\alpha(L)=0.1100$ 16; $\alpha(M)=0.01629$ 24; $\alpha(N)=0.000755$ 11 E γ : from 1970Me20 . I γ : from 1969Im02 . Mult.: $\alpha(K)\exp=1.2$ 6 (1962We08), $\alpha(K)=0.71$ for E3, 0.93 for M3. E3 assignment is consistent with J^π values of g.s. and 160 level.

[†] For absolute intensity per 100 decays, multiply by 0.215 23.[‡] 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.

$^{77}\text{Ge IT decay (53.7 s)}$ **1970Me20,1970Im01**Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=19 2

