

^{75}Ge IT decay (47.7 s) [1976Bh04](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Alexandru Negret, Balraj Singh		NDS 114, 841 (2013)	30-Jun-2013

Parent: ^{75}Ge : $E=139.68$; $J^\pi=7/2^+$; $T_{1/2}=47.7$ s 5; %IT decay=99.970 6

^{75}Ge -%IT decay: % β^- =0.030 6 ([1976Bh04](#)).

[1976Bh04](#): measured γ , ce.

Yield measurements: [1997Na27](#), [1981Va06](#), [1970Be52](#), [1969Co11](#), [1967Ok01](#), [1963Ma44](#), [1962We08](#).

Others: [1992Sh16](#), [1974Bu14](#), [1970Me20](#), [1970MeZZ](#), [1967Ch37](#), [1962We08](#).

 ^{75}Ge Levels

E(level)	J^π [†]	$T_{1/2}$	Comments
0	$1/2^-$		
61.89? 9			
139.68	$7/2^+$	47.7 s 5	$T_{1/2}$: from 1974Ch22 . Others: 46.6 s 5 (1976Bh04), 48.9 s 2 (1969Im02), 45.8 s 31 (1974Bu14), 48 s 2 (1970Me20).

[†] From Adopted Levels.

 $\gamma(^{75}\text{Ge})$

I γ normalization: from $I(\gamma+\text{ce})(139.68\gamma)=100$.

E_γ	I γ [#]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	Mult.	α [‡]	I $_{(\gamma+\text{ce})}$ [@]	Comments
61.92 ^{†&} 10	0.030 6	61.89?		0	$1/2^-$				
77.86 ^{†&} 15	0.008 4	139.68	$7/2^+$	61.89?					
139.68 3	100	139.68	$7/2^+$	0	$1/2^-$	E3	1.530	100	ce(K)/($\gamma+\text{ce}$)=0.507 5; ce(L)/($\gamma+\text{ce}$)=0.0848 13; ce(M)/($\gamma+\text{ce}$)=0.01255 21; ce(N+)/($\gamma+\text{ce}$)=0.000548 9 Mult.: from $\alpha(\text{K})\text{exp}=1.40$ 7 (from comparison of I γ with K x-rays (1976Bh04)). Other: $\alpha(\text{K})\text{exp}=1.44$ 13 (1962We08).

[†] Ordering of 62 γ -78 γ cascade is not established. Present ordering is suggested by relative intensities.

[‡] [Additional information 1](#).

[#] For absolute intensity per 100 decays, multiply by 0.395 3.

[@] For absolute intensity per 100 decays, multiply by 0.99970 6.

[&] Placement of transition in the level scheme is uncertain.

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Decay Scheme

Intensities: $I_{(\gamma+ce)}$ per 100 parent decays
%IT=99.970 6

Legend

- $I_{\gamma} < 2\% \times I_{\gamma}^{max}$
- $I_{\gamma} < 10\% \times I_{\gamma}^{max}$
- $I_{\gamma} > 10\% \times I_{\gamma}^{max}$
- - - - - → γ Decay (Uncertain)

