

^{237}Pu IT decay (0.18 s)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. S. Basunia	NDS 107, 3323 (2006)	15-Mar-2006

Parent: ^{237}Pu : E=145.543 8; $J^\pi=1/2^+$; $T_{1/2}=0.18$ s 2; %IT decay=100.0

 ^{237}Pu Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	$7/2^-$	45.2 d 1	
145.543 8	$1/2^+$	0.18 s 2	%IT=100 $T_{1/2}$: From Ag(t) in ^{241}Cm α decay.

 $\gamma(^{237}\text{Pu})$

E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f	Mult.	$\alpha^\ddagger$	$I_{(\gamma+ce)}^\dagger$	Comments
145.542 8	145.543	$1/2^+$	0.0	$7/2^-$	E3	51.6	100	ce(K)/($\gamma+ce$)=0.00396; ce(L)/($\gamma+ce$)=0.687; ce(M)/($\gamma+ce$)=0.208; ce(N+)/($\gamma+ce$)=0.0820 B(E3)(W.u.)=0.028 4 Additional information 1.

† Absolute intensity per 100 decays.

‡ 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.

 ^{237}Pu IT decay (0.18 s)Decay Scheme

%IT=100.0

