

$^{118}\text{In}$  IT decay (8.5 s)    1969Ha08,1970Ha08

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	K. Kitao	NDS 75,99 (1995)	1-Feb-1993

Parent:  $^{118}\text{In}$ : E $\approx$ 200; J $\pi$ =8 $-$ ; T $_{1/2}$ =8.5 s 3; %IT decay=98.6Source by  $^{118}\text{Sn}(n,p)$  on enriched isotope,Ge(Li),  $\gamma\gamma$  coin.

Other: 1970Ha08.

 $^{118}\text{In}$  Levels

E(level)	J $\pi$	T $_{1/2}$
$\approx$ 60	5 $^+$	4.45 min 5
$\approx$ 200	8 $-$	8.5 s 3

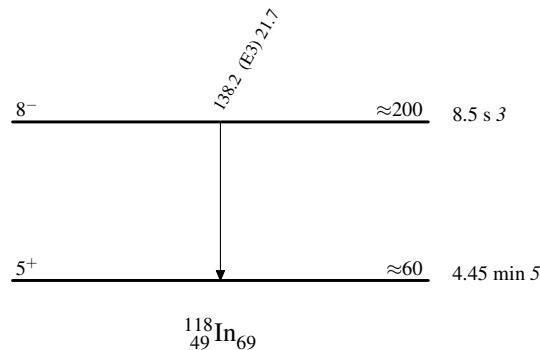
 $\gamma(^{118}\text{In})$ I $\gamma$  normalization: From comparison of the total intensity of 138.2 IT decay (assumed to be E3) and the 254 transition (assumed as E2) in  $^{118}\text{Sn}$  (I $\gamma$ (138)/I $\gamma$ (254)=100/6.3 15) (1970Ha08).

E $\gamma$	I $\gamma$ <sup>†</sup>	E $_i$ (level)	J $^\pi_i$	E $_f$	J $^\pi_f$	Mult.	$\alpha$ <sup>‡</sup>	Comments
138.2 5	100	$\approx$ 200	8 $-$	$\approx$ 60	5 $^+$	(E3)	3.56	$\alpha(K)= 2.075; \alpha(L)= 1.195; \alpha(M)= 0.2459; \alpha(N+..)= 0.0491$ $B(E3)(W.u.)=0.0388 20$ Mult.: $\alpha(K)\exp=1.5 8$ allows mult=M2,E3; but W.u. does not support M2.

<sup>†</sup> For absolute intensity per 100 decays, multiply by 0.216  $I$ .<sup>‡</sup> Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on  $\gamma$ -ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.

$^{118}\text{In}$  IT decay (8.5 s)    1969Ha08,1970Ha08Decay Scheme

Intensities:  $I_\gamma$  per 100 parent decays  
%IT=98.6

 $^{118}_{49}\text{In}_{69}$