

<sup>185</sup>Tl IT decay (1.93 s) 1977Sc03

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. -c. Wu	NDS 106,619 (2005)	1-Nov-2005

Parent: <sup>185</sup>Tl: E=453; J<sup>π</sup>=(9/2<sup>-</sup>); T<sub>1/2</sub>=1.93 s 8; %IT decay=?

<sup>185</sup>Tl Levels

E(level)	J <sup>π</sup> †	T <sub>1/2</sub> †
0.0	(1/2 <sup>+</sup> )	
284	(3/2 <sup>+</sup> )	
453	(9/2 <sup>-</sup> )	1.93 s 8

† From Adopted Levels.

γ(<sup>185</sup>Tl)

E <sub>γ</sub>	E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	Mult.	δ	α <sup>†</sup>	Comments
168.8	453	(9/2 <sup>-</sup> )	284	(3/2 <sup>+</sup> )	(E3)		8.93	α(K)= 0.633; α(L)= 6.08; α(M)= 1.67; α(N+..)= 0.548
284	284	(3/2 <sup>+</sup> )	0.0	(1/2 <sup>+</sup> )	M1+E2	0.91 20	0.32 3	Mult.: from ce(K)/ce(L)exp=0.22 5. α(K)= 0.25 3; α(L)= 0.056 5; α(M)= 0.0135 12; α(N+..)= 0.00429 13 δ: from α(K)exp=0.245 31; ce(K)/ce(L)exp≈3.3.

† 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=?

