

^{181}Tl IT decay (1.40 ms) 2009An14

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli	ENSDF	23-Dec-2009

Parent: ^{181}Tl : E=835.9 4; $J^\pi=(9/2^-)$; $T_{1/2}=1.40$ ms 3; %IT decay=?

$^{144}\text{Sm}(^{40}\text{Ca},p2n)$, E=177-229 MeV. Measured α , γ , K x ray, $\gamma\gamma$. Evalporated residues implanted into 16-strip position-sensitive silicon strip detectors; large-volume 4-fold segmented clover Ge detector.

 ^{181}Tl Levels

E(level)	J^π	$T_{1/2}$
0.0	(1/2 ⁺)	3.2 s 3
258.0 3	(3/2 ⁺)	
835.9 4	(9/2 ⁻)	1.40 ms 3

 $\gamma(^{181}\text{Tl})$

E_γ	$E_i(\text{level})$	J^π_i	E_f	J^π_f	Mult.	$I_{(\gamma+ce)}$	Comments
258.0 3	258.0	(3/2 ⁺)	0.0	(1/2 ⁺)	M1		Mult.: from $K\alpha$ x ray, $K\beta$ x ray.
577.9 3	835.9	(9/2 ⁻)	258.0	(3/2 ⁺)	(E3)	99.60 4	

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%IT=?

