^{50}Sc β^- decay (0.35 s):? 1984Al18

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jun Chen and Balraj Singh	NDS 157, 1 (2019)	15-Apr-2019

Parent: ^{50}Sc: E=256.895 *10*; $J^\pi=2^+$; $T_{1/2}$=0.35 s *4*; Q(β^-)=6884 *15*; %β^- decay<1.0
^{50}Sc-E,J^π,$T_{1/2}$: From ^{50}Sc Adopted Levels.
^{50}Sc-Q(β^-): From 2017Wa10.
1984Al18: measured γ spectra, $\beta\gamma$(t) at Brookhaven National Lab.
1963Ka16: measured Eγ and $T_{1/2}$.

^{50}Ti Levels

E(level)	J^π	Comments
0.0?	0^+	
1553.8?	2^+	E(level),J^π: From the Adopted Levels. Energy is rounded value.

β^- radiations

E(decay)	E(level)	Iβ^- [†]	Log *ft*	Comments
(5587[‡] *15*)	1553.8?	<1.0	>5.7	av Eβ=2552.2 *74*

[†] Absolute intensity per 100 decays.
[‡] Existence of this branch is questionable.

γ(^{50}Ti)

Eγ	E$_i$(level)	J_i^π	E$_f$	J_f^π	Comments
1553.8[†]	1553.8?	2^+	0.0?	0^+	Eγ: Rounded value from the Adopted Gammas. Existence of the 1554γ from ^{50}Sc decay (0.35 s) searched, but not observed by 1984Al18 and 1963Ka16.

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

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Decay Scheme