^{150}Cs β^-n decay (81 ms) 2018Li06

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen	NDS 185, 2 (2022)	23-Aug-2022

Parent: ^{150}Cs: E=0; $T_{1/2}$=81 ms *3*; Q(β^-n)=6590 *SY*; %β^-n decay=20 *10*

^{150}Cs-$T_{1/2}$: Weighted average of 80 ms *3* (2018Li06, also 80 ms *4* in 2017Li06); 84.4 ms *82* (2017Wu04); 82 ms *7* (2000KoZH).

^{150}Cs-Q(β^-n): 6590 *400* (syst,2021Wa16).

^{150}Cs-%β^-n decay: %β^-n=20 *10* for ^{150}Cs decay (2000KoZH). Other: ≈44%, estimated by 2018Li06 from γ intensities.

2018Li06: ^{150}Cs produced at ISOLDE-CERN by fission of UC_x induced by the 1.4-GeV proton beam from PS Booster (PSB). Measured Eγ, Iγ, $\beta\gamma$ and $\gamma\gamma$-coin, half-lives of decay of ^{150}Cs g.s. The only information available about γ-ray data from ^{150}Cs β^-n decay to ^{149}Cs is observation of two γ rays of 282.9 and 316.6 keV displayed in $\beta\gamma$-coin spectrum Fig. 5a, and brief discussion in text. These two γ rays are most strongly emitted in the decay of ^{149}Ba to ^{149}Cs.

^{149}Ba Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(5/2$^-$,3/2$^-$)	352 ms *6*	J^π,$T_{1/2}$: from the Adopted Levels.
282.9			
316.6			

γ(^{149}Ba)

E_γ [†]	E_i(level)	E_f	J^π_f	Comments
282.9	282.9	0.0	(5/2$^-$,3/2$^-$)	E_γ: read by evaluators from spectral Fig. 5a in 2018Li06.
316.6	316.6	0.0	(5/2$^-$,3/2$^-$)	E_γ: value is mentioned in the text by 2018Li06.

[†] From spectrum Fig. 5a and text in 2018Li06.

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Decay Scheme