^{127}I(μ^-,νnγ)   **2007Me09**

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. Hashizume	NDS 112, 1647 (2011)	1-Oct-2009

μ produced by E=90 MeV/cπ^- decay, plastic scintillators, Compton suppressed HPGe-γ detectors; observed γ's, x-rays.

^{127}Te Levels

E(level)[†]	J$^\pi$[†]	T$_{1/2}$[‡]
0.0	3/2$^+$	9.35 h 7
88.23 7	11/2$^-$	106.1 d 7
340.87 6	(9/2$^-$)	0.41 ns 2
473.26 4	5/2$^+$	
631.40 6	7/2$^-$	
685.09 7	7/2$^+$	
762.64 5	3/2$^+$	
782.62 3	5/2$^+$	
1289.79 8	5/2$^+$	

[†] From Adopted Levels. The authors give values from the 1996 version of the Nuclear Data Sheets.
[‡] From Adopted Levels.

γ(^{127}Te)

E$_\gamma$[†]	I$_\gamma$[‡]	E$_i$(level)	J$^\pi_i$	E$_f$	J$^\pi_f$
252.7 1	3.4 4	340.87	(9/2$^-$)	88.23	11/2$^-$
290.54 3	0.2 2	631.40	7/2$^-$	340.87	(9/2$^-$)
473.3 1	1.4 4	473.26	5/2$^+$	0.0	3/2$^+$
543.2 1	0.3 2	631.40	7/2$^-$	88.23	11/2$^-$
685.0 1	0.4 4	685.09	7/2$^+$	0.0	3/2$^+$
762.6 1	0.2 2	762.64	3/2$^+$	0.0	3/2$^+$
782.63 3	1.0 4	782.62	5/2$^+$	0.0	3/2$^+$
816.6 2	1.0 5	1289.79	5/2$^+$	473.26	5/2$^+$
1289.4 3	<1.0	1289.79	5/2$^+$	0.0	3/2$^+$

[†] From Adopted Levels. The authors take values from the 1996 version of the Nuclear Data Sheets.
[‡] Observed γ-ray yield (%) per muon capture in the ^{127}I(μ^-,νnγ)^{127}Te reaction.

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Level Scheme

Intensities: Relative I$_\gamma$

Legend

→ I$_\gamma$ < 2%×I$_\gamma^{max}$
→ I$_\gamma$ < 10%×I$_\gamma^{max}$
→ I$_\gamma$ > 10%×I$_\gamma^{max}$

$^{127}_{52}$Te$_{75}$