$^{127}I(\mu^-,\nu 2n\gamma)$ 2007Me09

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. Katakura	NDS 112, 495 (2011)	1-Jan-2010

2007Me09: measured Eγ, Iγ.
1971Ba10: measured Eγ, Iγ.
XUNDL data set compiled by S. Geraedts and B. Singh (McMaster), May 3, 2007, is consulted.
The μ^- beam obtained from decay of π^- beam at 90 MeV/c. Measured γ-ray yields using two HPGe detectors at TRIUMF facility. (2007Me09).

^{125}Te Levels

E(level)	J$^\pi$‡	Percent yield per muon capture	Comments
0.0	1/2$^+$		
35.49†	3/2$^+$		Additional information 1.
144.78†	11/2$^-$		Additional information 2.
321.1 *10*	9/2$^-$	1.6 *30*	Percent yield per muon capture: Known cascading=1.4(5)%.
443.6 *7*	3/2$^+$	2.9 *9*	
463.4 *7*	5/2$^+$	3.3 *5*	
525.2 *10*	7/2$^-$	2.0 *5*	
636.1 *10*	7/2$^+$	1.6 *10*	
642.2 *10*	7/2$^+$	1.5 *8*	
671.4 *10*	5/2$^+$	1.1 *4*	
786.6 *15*	7/2$^-$	1.1 *5*	

† Rounded-off value from Adopted Levels.
‡ From Adopted Levels.

$\gamma(^{125}Te)$

Eγ	Iγ†	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$
176.31	3 *3*	321.1	9/2$^-$	144.78	11/2$^-$
380.45	1.6 *4*	525.2	7/2$^-$	144.78	11/2$^-$
408.07	0.8 *3*	443.6	3/2$^+$	35.49	3/2$^+$
427.87	2.4 *4*	463.4	5/2$^+$	35.49	3/2$^+$
443.56	2.1 *8*	443.6	3/2$^+$	0.0	1/2$^+$
463.37	0.9 *3*	463.4	5/2$^+$	0.0	1/2$^+$
465.55	1.0 *5*	786.6	7/2$^-$	321.1	9/2$^-$
600.60	1.6 *10*	636.1	7/2$^+$	35.49	3/2$^+$
606.71	1.3 *8*	642.2	7/2$^+$	35.49	3/2$^+$
635.95	0.9 *4*	671.4	5/2$^+$	35.49	3/2$^+$

† γ-ray yield per 100 μ captures, not corrected for cascading.

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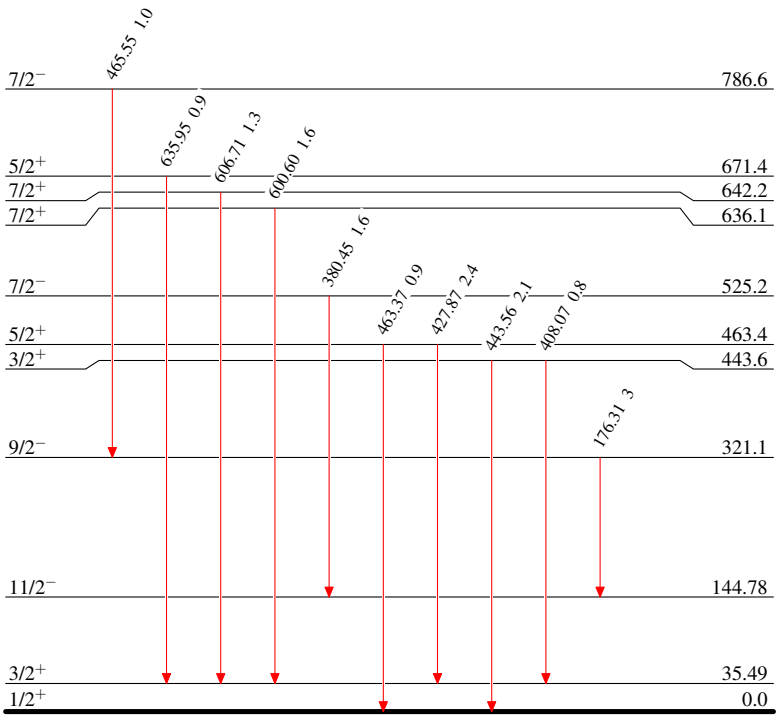
Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$

Level Scheme

Intensities: Percent γ-ray yield/muon capture



$^{125}_{52}Te_{73}$