^{127}I(d,^{3}He) 1997Ot02,1968Wi14

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	H. Iimura, J. Katakura, S. Ohya	NDS 180, 1 (2022)	1-Oct-2021

1997Ot02: E=27, 28 MeV, enriched target 50.0%, Q3D magnetic spectrographs, θ=30 (E=27 MeV) and 50° (E=28 MeV).
1968Wi14: E=34.5 MeV, E/ΔE telescope, semi, FWHM≈100 keV, potassium iodide target.
$J^{\pi}(^{127}I)=5/2^{+}$.

^{126}Te Levels

E(level)[†]	L	S[@]	Comments
0.0 *2*	2	0.39	E(level): 0.0 *3* at E=28 MeV.
666.3 *2*	(2)	0.18	E(level): 666.3 *3* at E=28 MeV.
1361.4 *6*			E(level): 1361.3 *8* at E=28 MeV.
1420.3 *4*			E(level): 1420.3 *6* at E=28 MeV.
1776.25 *22*			E(level): 1776.2 *3* at E=28 MeV.
1873.4 *4*			E(level): 1872.7 *7* at E=28 MeV.
2013.4 *6*			E(level): 2012.5 *13* at E=28 MeV.
2044.7 *5*			E(level): 2045.4 *4* at E=28 MeV.
2113.8 *8*			E(level): 2116.1 *17* at E=28 MeV.
2125.9 *19*			E(level): 2129.5 *16* at E=28 MeV.
2155.1?[‡] *18*			
2184.5 *4*			E(level): 2184.5 *5* at E=28 MeV.
2228.7?[‡] *24*			
2327.0? *13*			E(level): 2334 *4* in E=28 MeV.
2396.4 *4*			E(level): 2396.1 *10* at E=28 MeV.
2438.2?[#] *24*			
2496.3?[#] *19*			
2577.9[‡] *6*			
2589.2[‡] *12*			
2652.8?[‡] *8*			
2681.9[‡] *10*			
2783.8[‡] *14*			
2793.9?[‡] *16*			
2872.6?[‡] *11*			
2973.3[‡] *12*			
3009.2[‡] *14*			

[†] From 1997Ot02 at E=27 MeV unless otherwise noted.
[‡] Observed only at E=27 MeV.
[#] Observed only at E=28 MeV.
[@] C^2S: normalized to ^{39}K(d,^{3}He) reaction (1968Wi14).