^{125}Te(d,p) 1997Ot02,1971Gr01

History

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

1997Ot02: E=26 MeV, enriched target 82.5 %, Q3D magnetic spectrographs, θ=60°.
1971Gr01: E=7.5 MeV, $J^{\pi}(^{125}Te)=1/2^{+}$, broad-range multigap spectrometer, ΔE=5-10 keV.
Others: 1960Co10, 1963Za04, 1964Jo12.
$J^{\pi}(^{125}Te)=1/2^{+}$.

^{126}Te Levels

E(level)[†]	L	S[#]	Comments
0.0 *2*	0	0.62	
666.3 *6*	2		
1361.7 *25*			
1420.2 *12*	2		
1873.3 *11*	0		
2046.3 *10*			
2114.0 *19*			
2184.2 *4*	2	0.30	
2218.3 *3*	(5)	0.96	
2385.7 *11*			
2421.1 *3*	0+2	0.08+0.17	
2436.8? *22*			
2503.0 *18*	2	0.18	
2515.0 *11*			
2578.5 *5*	0	0.10	
2588.9 *6*			
2641.0 *5*			
2683.9 *3*	2	0.42	
2730.75 *24*	(3+5)	0.10+0.59	
2743.1 *16*			
2782.9 *3*	5	1.62	
2798.0? *10*			
2803.1 *8*			
2814.1 *4*			
2833? *3*			
2862.6 *10*			
2895.4 *19*			
2974.3 *14*			
2995.6 *11*			
3029.1? *21*			
3093?[‡]			E(level): not observed in 1997Ot02.
3131.1 *12*	3	0.15	
3194.3 *11*			
3254?[‡]			E(level): not observed in 1997Ot02.
3270.1 *15*			
3301.1 *19*			
3371.7 *21*			
3389.8 *18*	(2)	0.09,0.07	
3447.6 *23*			
3688[‡]			
3756[‡]			
3840[‡]			
3969[‡]	3	0.21	
4037[‡]			

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^{125}Te(d,p) 1997Ot02,1971Gr01 (continued)

^{126}Te Levels (continued)

E(level)[†]	L	S[#]	Comments
4074[‡]			
4275[‡]			
4336[‡]			
4374[‡]			
4414[‡]	(2)	0.08,0.06	
4459[‡]	(2)	0.14,0.12	
4501[‡]	(1)	0.10	
4552[‡]	(2)	0.13,0.11	
4587[‡]	1	0.07	
4665[‡]			
4693[‡]	1	0.16	S′:DWBA analysis for 4669+4697 levels.
4763[‡]			
4792[‡]	1	0.20	S′:DWBA analysis for 4767+4796 levels.
4882[‡]	(1)	0.08	
4932[‡]	(1)	0.08	
5063[‡]	(1)	0.06	

[†] From 1997Ot02, unless otherwise noted.
[‡] From 1971Gr01. The level energies from 1971Gr01 are 4 keV higher than those from 1997Ot02. (from av. of difference between values from 1971Gr01 and 1997Ot02) The correction by evaluators is applied to the energies.
[#] S′:uncertainties are approximately 10%; DWBA calculations were performed by assuming $s_{1/2}$(L=0), $p_{3/2}$(L=1), $d_{3/2}$(L=2), $f_{7/2}$(L=3), $h_{11/2}$(L=5) transfers (1971Gr01).