

$^{124}\text{Te}(t,d)$ 1981Sh02

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

1981Sh02: E=16 MeV, split-pole magnetic spectrograph, enriched target 96.21%, FWHM \approx 15 keV, $\theta=10^\circ-40^\circ$.

 ^{125}Te Levels

E(level) [†]	L	C ² S [@]	Comments
0	0	0.260	
35 5	2	0.318	
144 5	5	0.177	
445 5	2	0.009	
463 5	2		
526 [‡] 5	3	0.014	
642 5	4	0.061	
671 5	2	0.043	
729 5	2		C ² S=0.053,0.030.
786 5	3		C ² S=0.035,0.020.
1055 5	3		L=3 is in conflict with L=2 in (d,t) and (³ He, α). C ² S=0.027,0.016. No $\sigma(\theta)$ plot is shown for this level.
1133 [‡] 5	2		C ² S=0.022,0.012.
1242 5	1		L=1 is in conflict with L=2 in (d,t) C ² S=0.004,0.002. No $\sigma(\theta)$ plot is shown for this level.
1265 5	2		C ² S=0.012,0.007.
1322 5	2		L=2 is in conflict with the property of γ depopulations in (n, γ). C ² S=0.007,0.004. No $\sigma(\theta)$ plot is shown for this level.
1364 5	5		C ² S=0.013,0.005.
1435 5	2		C ² S=0.008,0.005.
1530 5	2		C ² S=0.006,0.003. Authors' value of 0.03 for 5/2 ⁺ is probably a misprint.
1584 5	(0)	0.005	
1698 5	(1)		C ² S=0.043,0.020.
1754 5	2		C ² S=0.004,0.002.
1816 5	3		C ² S=0.028,0.016.
1853 5	2		C ² S=0.007,0.004.
1925 5	3		C ² S=0.016,0.010.
1954 5	(1)		C ² S=0.056,0.026.
1978 5	3		C ² S=0.036,0.021.
2005 5	(1)		C ² S=0.019,0.009.
2044 5	1		C ² S=0.109,0.051.
2105 [#] 5	(3)		C ² S=0.260,0.153.
2178 5	1		C ² S=0.037,0.018.
2244 5	1		C ² S=0.037,0.017.
2273 5	(1)		C ² S=0.009,0.004.
2311 5	1		C ² S=0.147,0.069.
2346 5	(3)		C ² S=0.024,0.014.
2376 5	3		C ² S=0.005,0.003.

[†] From 1981Sh02.

[‡] Possible doublet.

[#] Possible triplet.

[@] From DWBA. The pair of values in the comments are for L_n-1/2 and L_n+1/2, respectively.