

$^{126}\text{Te}(t,\alpha)$ 1973Co33

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

1980Sh03: E=16 MeV, magnetic spectrograph, FWHM=30 keV.

1973Co33: E=11.76 MeV, multiangle spectrometer, enriched target 97.0%, FWHM=30 keV, $\theta=12.5^\circ-175^\circ$.

 ^{125}Sb Levels

E(level) [†]	L	C ² S [‡]	Comments
0.0	4	1.45	
325 <i>10</i>	2	0.43	
641 <i>10</i>	2	0.12	
912 <i>10</i>	0	0.03	
1813 <i>10</i>	4	2	
1894 <i>10</i>			
2118 <i>10</i>	1	0.80	
2299 <i>10</i>	1	0.39	
2515 <i>10</i>	1		C ² S: 0.20 if 2p _{1/2} , 0.17 if 2p _{3/2} .
2678 <i>10</i>	3,4		C ² S: 0.58 if 1f _{5/2} or 0.36 if 1g _{9/2} .
3122 <i>10</i>	4	0.50	
3190 <i>10</i>	3	0.61	
3462 <i>10</i>	1		C ² S: 0.19 if 2p _{1/2} , 0.15 if 2p _{3/2} .

[†] From 1973Co33.

[‡] From 1973Co33, normalized to $\Sigma(\text{C}^2\text{S})=2$ with the assumption that ^{126}Te can be represented by two protons above Z=50 core distributed among the 1g_{7/2}, 2d_{5/2}, 2d_{3/2}, 3s_{1/2} and 1h_{11/2} orbitals. Assignments of L=0, 1, 2, 3, and 4 are 3s_{1/2}, 2p_{1/2} or 2p_{3/2}, 2d_{3/2} (641) or 2d_{5/2} (325), 1f_{5/2} and 1g_{7/2} (g.s.) or 1g_{9/2}.