

$^{126}\text{Te}(\text{d,t})$ 1984Ro14

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

1984Ro14: E=17 MeV; magnetic spectrograph; $\sigma(\theta)$ $\theta=7.5^\circ, 77.5^\circ$; FWHM=7 keV; enriched target 97.0%; deduced $\text{C}^2\text{S}'$.

1980Ro06: E=17 MeV. FWHM=35 keV.

1964Jo12: E=14.8 MeV; magnetic spectrograph; $\sigma(\theta)$ $\theta=45^\circ, 60^\circ$; deduced C^2S , enriched target.

 ^{125}Te Levels

E(level) [†]	L [‡]	$\text{C}^2\text{S}'^{\ddagger}$	Comments
0.0	0	1.4	
34 5	2	2.5	
145 5	5	6.2	
320 5	(5)	0.02	
444 5	2	0.13	
463 5	2	0.08	
525 5	3	0.07	
538 5	(0)	<0.002	
636 5	4	1.9	
642 5	4	3.0	
671 5	2	1.4	
729 5	2	0.08	
786 5	3	0.15	
804 [#] 5			
1017 [#] 5			
1053 5	2	1.0	
1065 5	2	0.10	
1089 5	2	0.007	
1132 5	2	0.82	
1147 5	4	0.59	
1241 5	2	0.06	
1263 5	2	0.75	
1309 5	4	0.49	
1317 5	0	0.01	L=0 is in conflict with depopulations in (n, γ).
1355 5	4	0.46	
1433 5	2	0.51	
1526 5	2	0.21	
1583 5	0	0.14	
1645 5	2	0.03	
1666 5	(2)	0.03	
1695 5	1	0.01	
1710 5	0	0.04	
1727 5	4	1.0	
1755 5	2	0.06	
1770 5	(0)	0.009	$\text{C}^2\text{S}'$: Placement of 0.009 as ($^3\text{He},\alpha$) in 1984Ro14 seems to be misprinted, because the level energy and cross section are reported in (d,t), not in ($^3\text{He},\alpha$).
1809 5	2	0.18	
1832 5	4	0.33	
1857 5	2	0.007	
1881 5			
1900 5	0	0.12	
1926 5	2	0.05	
1951 5	1	0.01	
1969 5	4	0.25	
1985 5	0	0.03	
2008 5	(1+5)	0.004	

Continued on next page (footnotes at end of table)

 $^{126}\text{Te}(\text{d,t})$ **1984Ro14 (continued)**

 ^{125}Te Levels (continued)

<u>E(level)[†]</u>	<u>L[‡]</u>	<u>C²S'[‡]</u>	<u>Comments</u>
2042 5	1	0.01	
2058 5	2	0.02	
2080 5	(4)	0.20	
2103 5	(3)	0.04	
2121 5	2	0.02	L=2 is in conflict with the suggestion of high angular momentum transfer in (d,p).
2157 5	(4)	0.15	
2175 5	(0)	0.03	
2197 5	(4)	0.29	
2221 5	(2)	0.04	

[†] From **1984Ro14**.

[‡] From DWBA analysis (**1984Ro14**).

1980Ro06 suggested J=15/2⁻ for 804 level and J=11/2⁻ for 1017 level from combined CCBA analysis.