

¹²⁵Te(d,t) 1995Ge06,1964Jo12

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	J. Katakura, Z. D. Wu		NDS 109, 1655 (2008)	1-Apr-2008

1995Ge06: E=22 MeV, Q3D spectrometer FWHM=3-6 keV, enriched target 82.5%.

1964Jo12: ¹²⁵Te(d,t) E=14.8 MeV; magnetic spectrograph FWHM≈40 keV; enriched target (0.5-1 mg/cm²) on Au backing (≈0.2 mg/cm²).

J^π of target is 1/2⁺.

¹²⁴Te Levels

E(C,O,P) Part of the intensity from a level in ¹²⁹Te.

E(level) [†]	Relative intensity ^a	E(level) [†]	Relative intensity ^a
0.0	187 5	2777.3 [‡] 3	27 4
602.73 20	100 7	2783.09 20	538 22
1248.7 3	2.3 3	2816.04 13	367 6
1325.62 4	55 3	2839.5 4	80 3
1656.66 14	149.1 23	2859.44 18	242 6
1883.10 8	37.5 10	2904.57 20	34.8 18
1956.11 14	12.9 10	2947.42 20	162 7
2039.31 8	138 5	2958.8 3	24 3
2091.28 17	29 6	2986.5 3	25.1 24
2224.4 3	13.6 17	2991.3 3	29.1 25
2273.97 15	72 5	2999.30 24	55 3
2294.2 3	40 4	3011.7 3	23.4 21
2308.5 3	232 16	3018.1 3	40.5 25
2323.26 10	9.0×10 ² 3	3034.7 6	18 4
2335.3 5	48 9	3048.6 8	16 5
2454.43 12	244 12	3055.4 4	101 14
2512.4 3	28 3	3060.0 6	51 12
2521.45 12	181 9	3082.6 5	42 7
2529.85 [#] 16	1036 21	3090.8 4	111 12
2544.84 ^{&} 6	53.6 13	3096.9 7	33 8
2579.34 7	593 18	3118.6 ^b 4	73 8
2600.63 7	581 17	3200 40	
2640.84 13	5 3	3280 40	
2662.89 [@] 15	20.1 20	3430 40	
2667.09 ^{&} 20	26.0 23	3580 40	
2681.72 10	87 3	3670 40	
2688.53 13	47.4 25	3750 40	
2709.50 18	35 4	3810 40	
2737.83 22	2.4 3	3890 40	
2767.2 3	3.5 6		

[†] From 1995Ge06 E≤3118.6 keV; others from 1964Jo12.

[‡] Only observed in one of two spectra.

[#] Only observed in three of four spectra.

[@] Eventually a single line.

[&] Probably from ¹²⁵Te.

^a From 1995Ge06; normalized transition to 602 keV to be 100.

^b Probably the same level as 3160 keV in 1964Jo12.