
 $^{125}\text{Te}(\text{p,t})$ [1972SeZQ,1973SeZL](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 174, 1 (2021)	15-Apr-2021

$J^{\pi}(^{125}\text{Te g.s.})=1/2^{+}$.

[1972SeZQ](#), [1973SeZL](#): E=19 MeV proton beam at University of Minnesota.

Reaction products were momentum-analyzed with an split-pole spectrometer and detected with emulsion and 6-position sensitive semi-conductor. Deduced levels, L-transfers for two-neutron transfers from DWBA analysis. The energies and L values for levels above 1946 are considered less certain (by evaluator) because of contaminants.

 ^{123}Te Levels

E(level)	L	E(level)	L	E(level)	L	E(level)	L
0.0	0	782 5	2	1342? 5		2050 15	4
159 5	2	877? 5		1410 [†] 5	2	2115 15	(0),(4)
248 5	5	895 5	2	1480 [†] 5	3	2160 [†] 15	(3),(4)
440 5	2	990 5	3	1560 10	2	2265 15	3
487 5	>3 [‡]	1037 5	2	1675 [†] 10	≥2	2290 15	4
505 5	2	1067? 5		1710 10	(2)	2370 15	3
536? 5		1080 5	4	1866 10	≥2	2950 15	3
598 5	0	1210 5	(3)	1946 10	0		
683 [†] 5	2	1330 5	4	1990 10	≥2		

[†] Multiplet.

[‡] From [1973SeZL](#). Reported as L=5 in [1972SeZQ](#).