^{130}Te(t,d)   1981Sh02

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, I. Mitropolsky, A. Rodionov	NDS 107, 2715 (2006)	17-Jul-2006

1981Sh02: ^{130}Te(t,d) E=16 MeV, FWHM=13-15 keV; measured σ (θ(c.m.)=10° to 70°), deduced levels, S, J^π. Enge split-pole magnetic spectrograph, position-sensitive proportional counter. DWBA analysis.

Other: 1980ShZX.

^{131}Te Levels

E(level)	$J^{\pi\dagger}$	$T_{1/2}$	L	S‡	Comments
0.0	3/2$^+$	25.0 min 1	2	0.243	$T_{1/2}$: from Adopted Levels, gammas.
183 5	11/2$^-$	33.25 h 25	5	0.161	$T_{1/2}$: from Adopted Levels, gammas.
297 5			0	0.161	
643 5	5/2$^+$		2	0.002	
857 5			0	0.002	L(d,p)=2 (2003To08).
882 5			3	0.012,0.007	
944 5	7/2$^+$		4	0.006	
1043$^{\#}$ 5			0	0.007	
1209 5	5/2$^+$		2	0.021	
1274 5			2	0.002,0.001	
1400 5			5	0.007,0.005	
1471 5			2	0.012,0.007	
1659$^{\#}$ 5			2	0.005,0.003	L(d,p)=3 (2003To08).
1722 5			2	0.006,0.003	
1786 5			3	0.020,0.012	
1840 5			3	0.014,0.008	
1865 5			0	0.009	L(d,p)=3,2 (2003To08).
2014 5			(1)	0.013,0.006	L(d,p)=2 (2003To08).
2069 5			(4)	0.003,0.001	
2092 5			(1)		S=(0.011,0.005)
2145 5					
2278 5	7/2$^-$		3	0.401	
2329 5			3	0.020,0.012	
2372 5			(3)	0.029,0.017	

† Assumed for the extraction of S.

‡ Where two values are given the first value is for L-1/2 and second for L+1/2. Uncertainties on the absolute σ are $\approx$20%.

$^\#$ Possible doublet.