^{130}Te(d,p),(pol d,p) 2003To08,1967Gr21

History

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

2003To08: ^{130}Te(pol d,p) E=18 MeV, FWHM=3-5 keV; measured proton spectra, $\sigma(\theta)$, $A_y(\theta)$, θ=11°−70° (12 steps), ^{131}Te deduced levels, L(n), S, J^π. Q3D spectrograph, DWBA and CCBA calculations.

1967Gr21: ^{130}Te(d,p) E=7.5 MeV, FWHM=12 keV; measured σ (θ=0° to 172.5°, 7.5°-steps), ^{131}Te deduced levels, L(n), S. Magnetic spectrograph, emulsions, DWBA calculations.

Others: 1977St33 and 1964Jo12.

Evaluators used data from 2003To08 and corresponding XUNDL file.

The 2003To08 data in comparison with 1967Gr21 ones were obtained with 3-5 times higher resolution, higher energy accuracy, and also the asymmetry measurements. Therefore under the discrepancies between data of 2003To08 and 1967Gr21 the preference is given to 2003To08 results.

^{131}Te Levels

The cross sections given under comments are in μb/sr at 20°, unless otherwise stated.

E(level)[†]	J^π[‡]	L[‡]	S[‡]	Comments
0.0	$3/2^+$	2	0.25	dσ/dΩ= 1770 *90*.
183.0 *5*	$11/2^-$	5	0.15	dσ/dΩ= 163 *4*.
296.8 *6*	$1/2^+$	0	0.13	dσ/dΩ= 219 *6*.
642.2 *5*	$5/2^+$	2	0.0023	dσ/dΩ= 32 *2*.
802.5 *9*				dσ/dΩ= 8 *2* (23°).
854.2 *5*	$3/2^+$	2	0.0008	dσ/dΩ= 6.1 *6*. L: L(t,d)=0 (1981Sh02).
879.9 *5*	$7/2^-$	3	0.0062	dσ/dΩ= 82 *4*. L(d,p)=1 (1967Gr21), L(t,d)=3 (1981Sh02).
942.9 *5*	$(7/2)^+$	4	<0.0002	dσ/dΩ= 7.2 *6*.
1041.3 *5*	$1/2^+$	0	0.0040	dσ/dΩ= 7.0 *13*.
1051.6 *5*	$3/2^+$	(2)	0.0017	dσ/dΩ= 12.4 *10*.
1206.7 *5*	$5/2^+$	2	0.027	dσ/dΩ= 371 *4*.
1267.2 *6*	$(7/2^+,9/2^+)$	(4)	0.016	dσ/dΩ= 29 *2* (26°). L: L(t,d)=2 (1981Sh02).
1398.3 *6*	$5/2^+$	(2)	0.0015	dσ/dΩ= 13 *2* (26°). L: L(t,d)=5 (1981Sh02).
1400[#] *5*				
1469.3 *5*	$5/2^+$	2	0.0090	dσ/dΩ= 146 *2*. L(d,p)=1 (1967Gr21).
1600.9[@] *7*		(2)	0.00085	dσ/dΩ= 6.8 *9*.
1659.0 *5*	$7/2^-$	3	0.0020	dσ/dΩ= 31.2 *13*. L: L(t,d)=2 (1981Sh02).
1669.4[@] *9*				dσ/dΩ= 4.7 *9* (14°).
1721.1 *5*	$7/2^-,5/2^+$	3,2	0.0035	dσ/dΩ= 72 *4*. L(d,p)=(1) (1967Gr21), L(t,d)=2 (1981Sh02).
1779.7 *6*	$3/2^-$	1	0.0010	dσ/dΩ= 8.2 *11*.
1787.1 *5*	$7/2^-$	3	0.010	dσ/dΩ= 139 *4*. L(d,p)=1 (1967Gr21).
1841.9 *5*	$5/2^+,(7/2^-)$	2,(3)	0.0013	dσ/dΩ= 18 *2*. L: L(t,d)=3 (1981Sh02).
1852.7 *8*	$9/2^+,(11/2^-)$	4,(5)	0.0028	J^π: interference with low-spin level at 1855.8. dσ/dΩ= 10.6 *13*.
1866.4 *6*	$7/2^-,(5/2^+)$	3,2	0.0018	dσ/dΩ= 26.4 *15*. L: L(t,d)=0 (1981Sh02).

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^{130}Te(d,p),(pol d,p) 2003To08,1967Gr21 (continued)

^{131}Te Levels (continued)

E(level)[†]	Jπ[‡]	L[‡]	S[‡]	Comments
1875.4? *5*				dσ/dΩ= 3.2 *9* (40°).
1916.6[@] *5*				dσ/dΩ= 2.3 *4* (45°).
2016.1 *5*	5/2+	2	0.0045	dσ/dΩ= 70 *4*. L(d,p)=1 (1967Gr21), L(t,d)=(1) (1981Sh02). L(d,p)=1 (1967Gr21).
2091.4 *5*	3/2−	1	0.0020	dσ/dΩ= 24.1 *13* (26°).
2147.5 *6*	3/2+	2	0.0020	dσ/dΩ= 17 *2*.
2275.2 *5*	7/2−	3	0.31	dσ/dΩ= 5559 *53*.
2329.1 *5*	7/2−	3	0.0093	dσ/dΩ= 165 *4*. L(d,p)=(1) (1967Gr21).
2372.6 *5*	7/2−	3	0.012	dσ/dΩ= 211 *4*. L(d,p)=(1) (1967Gr21).
2393.7 *6*	(3/2+)	(2)	0.0008	dσ/dΩ= 7.8 *15* (23°).
2458.3[@] *6*	3/2+	2		L,Jπ: partial dσ/dΩ prefers L=1, but Ay data are in agreement with 3/2+. dσ/dΩ= 65.2 *11*.
2497.9 *6*				dσ/dΩ= 11.8 *15* (17°).
2503.6 *6*				dσ/dΩ= 10 *2* (17°).
2511.2 *5*	3/2−	1	0.036	dσ/dΩ= 424 *6*.
2547.6 *5*	3/2−	1	0.0024	dσ/dΩ= 38 *2*.
2582.5 *5*	3/2−	1	0.17	dσ/dΩ= 1964 *13*.
2705.8 *5*	3/2−	1	0.0015	dσ/dΩ= 19 *2*.
2753.6 *5*	3/2−	1	0.0038	dσ/dΩ= 49 *2*.
2780.2 *5*	7/2−	3	0.0014	dσ/dΩ= 34 *2*.
2788.4 *8*				dσ/dΩ= 15 *2* (17°).
2828.8 *5*	7/2−	3	0.0022	dσ/dΩ= 48 *2*.
2932.8 *5*	1/2−	1	0.0032	dσ/dΩ= 21 *1* (23°).
2980.7 *6*	(3/2+)	(2)	0.0015	dσ/dΩ= 16 *2* (17°).
3001.8 *10*	1/2−	1	0.13	dσ/dΩ= 739 *11*.
3028.3 *6*		2,(3)	0.0023	dσ/dΩ= 12 *2* (17°). S: $(2J+1)S_{dp}$.
3054.1 *5*	7/2−	3	0.0022	dσ/dΩ= 49 *2*.
3073.2 *5*	5/2−	3	0.0093	dσ/dΩ= 123 *2*.
3082.8 *6*	7/2−	3	0.0014	dσ/dΩ= 24 *1*.
3097.0 *6*	5/2−	3	0.0011	dσ/dΩ= 16 *1*.
3123.7 *11*				dσ/dΩ= 1.9 *6*.
3142.3 *5*	5/2−	3	0.025	dσ/dΩ= 333 *4*.
3184.7 *6*	5/2−	3	0.030	dσ/dΩ= 436 *4*.
3203.4 *6*	9/2−	5	0.023	dσ/dΩ= 35 *2*.
3209.2 *6*	7/2−	3	0.0015	dσ/dΩ= 38 *2*.
3239.6 *6*	9/2−,7/2+	5,4	0.0075	dσ/dΩ= 10 *1*.
3262.5 *6*	7/2−	3	0.0023	dσ/dΩ= 33 *1*.
3274.5 *6*				dσ/dΩ= 7.3 *6*.
3291.3 *7*	7/2−,5/2+	3,2	0.00026	dσ/dΩ= 6.6 *4*.
3301.9 *9*	5/2+,7/2−	2,3	0.00013	dσ/dΩ= 4.0 *5*.
3311.6 *8*	5/2−	3	0.00022	dσ/dΩ= 3.9 *5*.
3322.4 *6*	7/2−	3	0.00050	dσ/dΩ= 13 *1*.
3333.6 *7*		≥4	0.00025	dσ/dΩ= 3.4 *6*.
3354.0 *5*	7/2−	3	0.012	dσ/dΩ= 291 *3*.
3375.6 *9*	11/2−,9/2+	5,4	0.0060	dσ/dΩ= 22 *3*.
3379.2 *6*	(5/2+)	2	0.0022	dσ/dΩ= 69 *3*.
3404.1 *5*	7/2−	3	0.0050	dσ/dΩ= 117 *3*.
3417.2 *6*	7/2−	3	0.0090	dσ/dΩ= 218 *3*.
3425.5 *5*	7/2−	3	0.0012	dσ/dΩ= 29 *2*.
3437.8 *5*	(5/2−)	3,(2)	0.00030	dσ/dΩ= 4.1 *8* (23°).
3443.0 *6*	7/2−,(5/2+)	3,(2)	0.00035	dσ/dΩ= 9.4 *9*.

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^{130}Te(d,p),(pol d,p) 2003To08,1967Gr21 (continued)

^{131}Te Levels (continued)

E(level)†	Jπ‡	L‡	S‡	Comments
3458.8 *6*	7/2−	3	0.0030	dσ/dΩ= 92 *3*.
3469.2 *5*	5/2−	3	0.0090	dσ/dΩ= 129 *3*.
3473.5 *8*				dσ/dΩ= 27 *6*.
3506.4 *6*	5/2−	3	0.0044	dσ/dΩ= 62 *3*.
3510.7 *8*	5/2−	3	0.0014	dσ/dΩ= 19 *3*.
3518.1 *5*	5/2−	3	0.011	dσ/dΩ= 171 *3*.
3534.2 *6*	7/2−	3	0.0010	dσ/dΩ= 25 *1*.
3547.0 *5*	3/2−	1	0.0090	dσ/dΩ= 92 *3*.
3552.3 *5*	7/2+,(9/2−)	4,(5)	0.030	dσ/dΩ= 312 *4*.
3568.6 *5*	3/2−	1	0.013	dσ/dΩ= 148 *2*.
3580.1 *5*	7/2−	3	0.0026	dσ/dΩ= 69 *2*.
3602.1 *5*	3/2−	1	0.012	dσ/dΩ= 125 *2*.
3623.8 *5*	3/2−	1	0.0090	dσ/dΩ= 87 *2*.
3630.6 *9*	(5/2−)	(3)	0.0007	dσ/dΩ= 10 *1*.
3640.9 *8*	(7/2−,5/2+)	3,2	0.004	dσ/dΩ= 6.3 *7*. E(level),S: small contribution from ^{128}Te(d,p), also in dσ/dΩ.
3664.1 *5*	7/2−,(5/2+)	3,2	0.016	dσ/dΩ= 415 *5*.
3668.7 *6*	7/2−,5/2+	3,2	0.0033	dσ/dΩ= 76 *6* (23°).
3672.3 *9*	7/2−,5/2+	3,2	0.0040	dσ/dΩ= 108 *4*.
3689.6 *5*	1/2−	1	0.025	dσ/dΩ= 134 *3*.
3698.3 *5*	3/2−	1	0.0065	dσ/dΩ= 65 *2*.
3709.5 *5*	7/2−	3	0.025	dσ/dΩ= 650 *6*. L(d,p)=(2) (1967Gr21).
3728.1 *10*				dσ/dΩ= 6 *1*.
3739.1 *9*	7/2−	3	0.0022	dσ/dΩ= 54 *2*.
3750.7 *5*	3/2−	1	0.0022	dσ/dΩ= 28 *1*.
3762.9 *6*	3/2−	1	0.0008	dσ/dΩ= 11 *1*.
3771.4 *5*	7/2−	3	0.0016	dσ/dΩ= 41 *2*.
3776.7 *6*				dσ/dΩ= 15 *3* (14°).
3803.2 *9*	5/2−	3	0.00045	dσ/dΩ= 7.0 *7*.
3820.4 *10*	5/2+,7/2−	2,3	0.0006	dσ/dΩ= 21 *1*.
3825.5 *13*	(1/2−)	(1)	0.0004	dσ/dΩ= 2.5 *9* (26°).
3842.0 *8*				dσ/dΩ= 2 *1* (40°).
3847.4 *6*	7/2−	3	0.0010	dσ/dΩ= 24 *1*.
3857.8 *5*	7/2−,(5/2+)	3,(2)	0.0006	dσ/dΩ= 14 *1*.
3871.1 *10*				dσ/dΩ= 1.1 *6*.
3877.4 *6*				dσ/dΩ= 5.2 *6* (26°).
3889.8 *11*	(5/2−)	(3)	0.0003	dσ/dΩ= 4.3 *7*.
3895.9 *10*	5/2−	3	0.0004	dσ/dΩ= 6.2 *8*.
3904.9 *6*	5/2+,(7/2−)	2,(3)	0.0040	dσ/dΩ= 139 *3*.
3920.2 *9*		3,2	0.0008	dσ/dΩ= 13 *5* (17°).
3922.6 *11*	5/2−,3/2+	3,2	0.0020	dσ/dΩ= 37 *4*.
3934.6 *5*	7/2−	3	0.0030	dσ/dΩ= 85 *7*. L(d,p)=1 (1967Gr21).
3938.3 *5*	3/2−	1	0.017	dσ/dΩ= 165 *7*.
3956.0 *7*	5/2+,7/2−	2,3	0.0010	dσ/dΩ= 34 *2*.
3964.2 *6*	3/2+,5/2−	2,3	0.010	dσ/dΩ= 213 *3*.
3978.7 *10*				dσ/dΩ= 6 *1*.
3986.6 *6*	3/2−	1	0.019	dσ/dΩ= 77 *3*.
3991.4 *6*	3/2+	2	0.0025	dσ/dΩ= 55 *4*.
3996.4? *8*				dσ/dΩ= 14 *3* (17°).
3998.4 *5*	(3/2−)	(1)	0.0008	dσ/dΩ= 9 *1*.
4005.8 *5*	7/2−	3	0.0036	dσ/dΩ= 109 *2*.
4018.2 *5*	5/2−	3	0.0053	dσ/dΩ= 97 *3*.
4023.6 *6*	7/2−,5/2+	3,2	0.0012	dσ/dΩ= 33 *3* (23°).
4028.5 *6*	5/2−	3	0.013	dσ/dΩ= 229 *4*.

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^{130}Te(d,p),(pol d,p) 2003To08,1967Gr21 (continued)

^{131}Te Levels (continued)

E(level)†	Jπ‡	L‡	S‡	Comments
				L(d,p)=1 (1967Gr21).
4036.1 *5*	3/2−	1	0.019	dσ/dΩ= 175 *4*.
4041.9 *6*	7/2−,5/2+	3,2	0.0012	dσ/dΩ= 41 *3*.
4053.7 *6*	7/2−,5/2+	3,2	0.0006	dσ/dΩ= 19 *2*.
4060.3 *6*	1/2−	1	0.0030	dσ/dΩ= 14 *2*.
4070.1 *6*	3/2−	1	0.027	dσ/dΩ= 266 *4*.
4073.8 *11*	(1/2−)	(1)	0.0038	dσ/dΩ= 19 *5*.
4093.4 *7*	5/2−	3	0.0066	dσ/dΩ= 119 *3*.
4108.5 *7*	3/2−	1	0.0065	dσ/dΩ= 55 *4* (17°).
4115.3 *10*				dσ/dΩ= 7 *2*.
4124.7 *6*	3/2−	1	0.0036	dσ/dΩ= 34 *2*.
4136.2 *5*	5/2−	3	0.0093	dσ/dΩ= 172 *4*.
4150.0 *9*				dσ/dΩ= 7 *1*.
4157.4 *5*	5/2−	3	0.0068	dσ/dΩ= 128 *3*.
4163.2 *8*	7/2−	3	0.0007	dσ/dΩ= 21 *3* (23°).
4168.7 *6*	13/2+	6	0.028	dσ/dΩ= 37 *2*.
4175.9 *6*	11/2−	5	0.018	dσ/dΩ= 72 *3*.
4186.8 *6*	9/2+	4	0.0032	dσ/dΩ= 77 *3*.
4191.8 *7*	9/2+	4	0.0020	dσ/dΩ= 36 *3* (23°).
4196.2 *12*	5/2+	2	0.0008	dσ/dΩ= 44 *2*.
4205.1 *6*	9/2+	4	0.0060	dσ/dΩ= 116 *3*.
4211.7 *5*	13/2+	6	0.060	dσ/dΩ= 83 *3*.
4225.1 *9*	7/2+	4	0.0024	dσ/dΩ= 29 *2*.
4239.3 *6*	1/2−	1	0.016	dσ/dΩ= 82 *3*.
4246.0 *5*	9/2+	4	0.0020	dσ/dΩ= 36 *2*.
4252.8 *6*	1/2−	1	0.020	dσ/dΩ= 101 *3*.
4260.5 *6*	7/2−	3	0.0013	dσ/dΩ= 39 *3*.
4265.6 *6*	5/2−	3	0.0013	dσ/dΩ= 24 *2*.
4272.3 *8*				dσ/dΩ= 14 *2*.
4277.7 *6*	3/2−	1	0.0050	dσ/dΩ= 48 *3*.
4285.2 *5*	3/2−	1	0.023	dσ/dΩ= 224 *5*.
4293.2 *7*	3/2+	2	0.0030	dσ/dΩ= 71 *3*.
4299.3 *5*	3/2−	1	0.010	dσ/dΩ= 96 *3*.
4309.6 *6*	3/2+	2	0.0007	dσ/dΩ= 15 *2*.
4324.6 *9*	3/2−	1	0.010	dσ/dΩ= 114 *3*.
4327.3? *9*				dσ/dΩ= 23 *5* (26°).
4341.3 *7*	7/2−	3	0.0030	dσ/dΩ= 85 *7*.
				L(d,p)=(1) (1967Gr21).
4344.6 *5*	(3/2−)	(1)	0.0075	dσ/dΩ= 76 *7*.
4354.6? *5*				dσ/dΩ= 12 *3*.
4358.0 *9*	3/2+,(5/2+)	2	0.0013	dσ/dΩ= 45 *3*.
4363.1 *7*	7/2−	3	0.0036	dσ/dΩ= 108 *4*.
4373.1 *9*	9/2+	4	0.0005	dσ/dΩ= 11 *1*.
4379.7 *7*	7/2−	3	0.0005	dσ/dΩ= 14 *4*.
4383.5 *8*	7/2−	3	0.0007	dσ/dΩ= 24 *4*.
4389.3 *11*	(7/2−)	(3)	0.0006	dσ/dΩ= 21 *2*.
				L(d,p)=(1) (1967Gr21).
4393.1? *9*				dσ/dΩ= 14 *4*.
4403.7 *7*	7/2−	3	0.0003	dσ/dΩ= 9 *1*.
4412.1 *5*	7/2−	3	0.0011	dσ/dΩ= 34 *2*.
4426.1 *6*	3/2+,5/2+	2	0.0025	dσ/dΩ= 51 *2*.
4437.3 *6*	3/2−	1	0.0070	dσ/dΩ= 61 *2*.
4445.4 *6*	3/2−	1	0.011	dσ/dΩ= 99 *3*.
				L(d,p)=(0) (1967Gr21).
4453.1 *6*	1/2−	1	0.0080	dσ/dΩ= 35 *2*.
				L(d,p)=(0) (1967Gr21).

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^{130}Te(d,p),(pol d,p) 2003To08,1967Gr21 (continued)

^{131}Te Levels (continued)

E(level)†	Jπ‡	L‡	S‡	Comments
4461.2 *7*	3/2+	2	0.0019	dσ/dΩ= 39 *2*.
4472.1 *6*	7/2−	3	0.0026	dσ/dΩ= 71 *3*.
4485.2 *9*	(3/2−)	(1)	0.0025	dσ/dΩ= 25 *2* (23°).
4490.5 *9*	7/2+	4	0.0010	dσ/dΩ= 140 *4* (23°).
4506.2 *8*	5/2+	2	0.0035	dσ/dΩ= 108 *6* (23°).
4514.6 *12*	1/2−,3/2−	1	0.0060	dσ/dΩ= 19 *4* (17°).
4521.6 *9*	3/2+	2	0.010	dσ/dΩ= 186 *15* (23°).
4532.5 *6*	1/2−	1	0.018	dσ/dΩ= 82 *7* (23°).
4539.4 *7*	5/2−,(3/2+)	3,(2)	0.0024	dσ/dΩ= 49 *5* (17°).
4544.4 *6*	1/2−	1	0.080	dσ/dΩ= 302 *9* (17°). L(d,p)=(0) (1967Gr21).
4558.5 *7*	1/2−	1	0.036	dσ/dΩ= 147 *7* (17°). L(d,p)=(0) (1967Gr21).
4563.8 *7*	3/2−	1	0.018	dσ/dΩ= 145 *8*.
4570.8 *9*	(3/2−)	1	0.0047	dσ/dΩ= 36 *4* (17°).
4581.8 *6*	3/2−	1	0.0066	dσ/dΩ= 54 *4*.
4587.1 *11*	3/2−	1	0.0025	dσ/dΩ= 14 *3*.
4597.9 *9*	9/2+	4	0.0004	dσ/dΩ= 8 *2*.
4610.6 *7*				dσ/dΩ= 42 *8* (17°).
4614.3 *14*	(9/2+)	4	0.0035	dσ/dΩ= 66 *8* (17°). L(d,p)=(2) (1967Gr21).
4620.1 *9*	5/2−	3	0.015	dσ/dΩ= 299 *5*.
4628.9 *10*	1/2−,3/2−	1	0.0050	dσ/dΩ= 28 *4* (14°).
4645.5 *6*	3/2−	1	0.012	dσ/dΩ= 112 *4*.
4650.3 *8*	3/2−	1	0.0050	dσ/dΩ= 36 *3*.
4654.5 *6*	5/2−,(3/2+)	3,(2)	0.0015	dσ/dΩ= 29 *3*.
4659.2 *6*	5/2−	3	0.012	dσ/dΩ= 233 *4*.
4671.9 *6*	5/2−	3	0.0031	dσ/dΩ= 53 *3*.
4678.0 *8*		2,3		dσ/dΩ= 33 *4*.
4682.5 *6*	13/2+,15/2−	6,7	0.0080	dσ/dΩ= 16 *3* (23°).
4694.4 *6*	5/2−	3	0.0065	dσ/dΩ= 122 *3*.
4707.3 *6*	5/2+,(3/2+)	2	0.0030	dσ/dΩ= 91 *3*.
4716.7 *6*	5/2−	3	0.0022	dσ/dΩ= 45 *2*.
4723.4 *8*	7/2−	3	0.0020	dσ/dΩ= 58 *3*.
4727.3 *8*	7/2−	3	0.0013	dσ/dΩ= 38 *3*.
4733.0 *6*	3/2−	1	0.0065	dσ/dΩ= 55 *3*.
4738.2 *6*	5/2+,(3/2+)	2	0.0009	dσ/dΩ= 27 *2*.
4743.7 *8*	(5/2−)	(3)	0.0025	dσ/dΩ= 47 *2*.
4749.1 *8*		(2,3)		dσ/dΩ= 36 *2*.
4753.9? *9*				dσ/dΩ= 12 *2*.
4756.0? *6*				dσ/dΩ= 12 *3*.
4759.9 *9*	5/2−	3	0.0013	dσ/dΩ= 27 *2*.
4765.6 *5*	7/2−	3	0.0019	dσ/dΩ= 64 *3*.
4770.8 *8*				dσ/dΩ= 29 *3*.
4775.2 *10*				dσ/dΩ= 10 *3*.
4783.9 *8*				dσ/dΩ= 8 *1*.
4789.8 *7*	7/2−	3	0.0004	dσ/dΩ= 9 *1*.
4801.6 *8*	5/2−	3	0.0020	dσ/dΩ= 42 *2*.
4808.8 *7*	(7/2−)	(3)	0.0003	dσ/dΩ= 7 *1*.
4814.2 *9*	(5/2+)	(2)	0.0015	dσ/dΩ= 33 *2*.
4820.8 *6*				dσ/dΩ= 25 *2*.
4826.5 *6*	7/2−	3	0.0025	dσ/dΩ= 73 *3*.
4842.9 *6*	5/2−,3/2+	3,2	0.0050	dσ/dΩ= 106 *4*.
4847.2 *6*	(3/2−)	(1)	0.0024	dσ/dΩ= 25 *2* (23°).
4856.1 *5*	(3/2+)	2	0.0024	dσ/dΩ= 50 *2*.
4863.5 *7*	1/2−,3/2+	1,2	0.0065	dσ/dΩ= 24 *2*.

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^{130}Te(d,p),(pol d,p) 2003To08,1967Gr21 (continued)

^{131}Te Levels (continued)

E(level)[†]	Jπ[‡]	L[‡]	S[‡]	Comments
4869.3 *6*	1/2$^-$	1	0.015	dσ/dΩ= 53 *3*.
4880.3 *10*				dσ/dΩ= 15 *2*.
4888.5 *6*				dσ/dΩ= 8 *3* (14°).
4894.8 *5*	3/2$^-$	1	0.0060	dσ/dΩ= 48 *4* (23°).
4899.2 *7*	(1/2$^-$)	(1)	0.0045	dσ/dΩ= 18 *3* (14°).
4904.8? *9*				dσ/dΩ= 21 *4*.
4907.3 *8*	5/2$^-$,3/2$^+$	3,2	0.0022	dσ/dΩ= 47 *5*.
4911.9 *8*	5/2$^-$,3/2$^+$	3,2	0.0030	dσ/dΩ= 58 *5*.
4914.8 *14*	7/2$^-$	3	0.0010	dσ/dΩ= 33 *5*.
4924.7 *7*	3/2$^+$	2	0.0005	dσ/dΩ= 11 *2*.
4929.9 *6*	5/2$^-$	3	0.0017	dσ/dΩ= 36 *3*.
4939.1 *6*	5/2$^-$	3	0.0055	dσ/dΩ= 111 *5*.
4945.4 *6*	3/2$^-$	1	0.0045	dσ/dΩ= 32 *3*.
4958.7 *8*	1/2$^-$	1	0.0007	dσ/dΩ= 25 *2*.
4964.5 *7*	3/2$^-$	1	0.0047	dσ/dΩ= 31 *2*.
4970.7 *7*	3/2$^-$	1	0.0090	dσ/dΩ= 67 *3*.
4977.0 *6*	(1/2$^-$)	(1)	0.024	dσ/dΩ= 85 *3*.
4984.2? *8*				dσ/dΩ= 9 *2* (23°).
4989.0 *5*	(1/2$^-$)	(1)	0.014	dσ/dΩ= 52 *2*.
4997.2 *6*				dσ/dΩ= 37 *3*.
5000.8 *6*				dσ/dΩ= 23 *3*.
5008.6 *6*		≥4		dσ/dΩ= 18 *2*.
5012.7 *7*	5/2$^-$	3	0.0028	dσ/dΩ= 62 *3*.
5019.2 *9*	13/2$^+$,15/2$^-$	6,7	0.0090	dσ/dΩ= 15 *2*.
5027.6 *5*	13/2$^+$,15/2$^-$	6,7	0.013	dσ/dΩ= 24 *2*.
5034.5 *6*	5/2$^-$	3	0.0030	dσ/dΩ= 68 *3*.
5040.5 *10*				dσ/dΩ= 15 *2*.
5049.3 *8*				dσ/dΩ= 37 *2*.
5056.4 *6*	7/2$^+$	4	0.0021	dσ/dΩ= 33 *2*.
5062.4 *6*	(5/2$^-$)	(3)	0.0025	dσ/dΩ= 53 *2*.
5074.6 *13*				dσ/dΩ= 8 *2*.
5088.3 *8*				dσ/dΩ= 29 *1* (23°).
5096.1 *5*				dσ/dΩ= 9 *1* (23°).
5104.0 *5*				dσ/dΩ= 82 *3* (23°).
5116.2 *6*				dσ/dΩ= 31 *2* (23°).
5122.4 *8*				dσ/dΩ= 39 *2* (23°).
5129.0 *8*				dσ/dΩ= 39 *2* (23°).
5140.0? *9*				dσ/dΩ= 4 *8* (23°).
5148.0 *7*				dσ/dΩ= 78 *14* (17°).
5156.6 *7*				dσ/dΩ= 56 *9* (17°).
5161.4 *6*				dσ/dΩ= 56 *8* (17°).
5172.3 *9*				dσ/dΩ= 91 *20* (17°).
5177.1 *9*				dσ/dΩ= 61 *9* (17°).
5183.0? *9*				dσ/dΩ= 56 *8* (17°).
5191.3 *14*				dσ/dΩ= 27 *5*.
5195.0 *9*				dσ/dΩ= 64 *7*.
5203.2 *11*				dσ/dΩ= 26 *3*.
5256[#] *5*				
5285[#] *5*				
5348[#] *5*				
5409[#] *5*				
5575[#] *5*				
5631[#] *5*				
5680[#] *5*				

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^{130}Te(d,p),(pol d,p) 2003To08,1967Gr21 (continued)

^{131}Te Levels (continued)

E(level)[†]
5754[#] *5*
5780[#] *5*

[†] From 2003To08, except as noted. In the table 1 of 2003To08 uncertainties are statistical only, authors stated a systematic error of 0.5 keV, which was added in quadrature by evaluators.
[‡] From 2003To08.
[#] From 1967Gr21.
[@] Tentative level, observed only at two or three angles, see 2003To08 for details.