

$^{122}\text{Te}(\text{pol d,t})$ 2000Bu15

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	S. Ohya	NDS 111, 1619 (2010)	20-Jan-2009

E=(pol D)=24.0 MeV (polarization 55-60%),enriched target 91.2%, Q3D spectrograph Enge split-pole magnetic spectrograph, FWHM=5-7keV, measured $\sigma(\theta)$, $\theta=7.5^\circ-40^\circ$ and analyzing power.

 ^{121}Te Levels

E(level)	J^π	L	C ² S	Comments
0.0	1/2 ⁺	0	1.08	
212.4 2	3/2 ⁺	2	0.54	
293.4 5	11/2 ⁻	5	2.22	
438.9 5	(9/2) ⁻	5	0.084	
443.3 4	7/2 ⁺	4	1.92	
475.4 3	5/2 ⁺	2	0.59	
532.5 5	3/2 ⁺	2	0.11	
539.5 6	5/2 ⁻ ,7/2 ⁻	3	0.28,0.21	J^π : 7/2 ⁻ in Adopted Levels.
594.0 3	5/2 ⁺	2	0.54	
678.2 6	1/2 ⁺	0	0.078	
684.2 6	(7/2) ⁺	4	0.19	
756.1 6	(5/2) ⁺	2	0.0033	
806.2 5	3/2 ⁺	2	0.11	
887 1				
912.2 3	5/2 ⁺	2	0.15	
925.7 7	(5/2) ⁻	3	0.26	
941.0 8	3/2 ⁺ ,5/2 ⁺	2	0.0023	C ² S: for 3/2 ⁺ ; 0.0019 for 5/2 ⁺ .
994.0 5	3/2 ⁺ ,5/2 ⁺	2	0.009	C ² S: for 3/2 ⁺ ; 0.007 for 5/2 ⁺ .
1018.4 6		(5)	≈0.05	
1043.0 5	5/2 ⁺	2	0.0036	
1050.7 6	(5/2) ⁻	3	0.011	
1079.0 6				
1108.2 10	1/2 ⁺	0	0.0037	
1119.4 6	7/2 ⁺	4	0.38	
1148.3 6	5/2 ⁺	2	0.29	
1161.6 5	(7/2 ⁺ ,9/2 ⁺)	(4)	0.036	C ² S: for 7/2 ⁺ ; 0.022 for 9/2 ⁺ .
1171.2 6	3/2 ⁺ ,5/2 ⁺ ,(11/2) ⁻	2+5	0.009	E(level): doublet. C ² S: for 3/2 ⁺ ; 0.007 for 5/2 ⁺ ; 0.079 for 11/2 ⁻ .
1226.6 10	5/2 ⁺	2	0.031	
1251.5 7	1/2 ⁺	0	0.20	
1281.5 6	1/2 ⁻	1	0.048	
1305.7 6	3/2 ⁺	2	0.016	
1340.0 5	5/2 ⁺	2	0.16	
1364.0 5	3/2 ⁺ ,5/2 ⁺	2	0.011	C ² S: for 3/2 ⁺ ; 0.009 for 5/2 ⁺ .
1388.6 6				
1400.2 7	5/2 ⁻	3	0.017	
1410.6 9		(3)	0.011	
1449 2		5(+?)	≈0.11	E(level): doublet (1447+1451).
1487.0 6	(3/2) ⁺	2	0.010	
1505.0 6				
1517.2 5	5/2 ⁻	3	0.063	
1551.2 6	1/2 ⁻	1	0.0064	
1575.8 5	3/2 ⁺ ,5/2 ⁺	2	0.0071	C ² S: for 3/2 ⁺ ; 0.0058 for 5/2 ⁺ .
1591.0 5	5/2 ⁻	3	0.0064	
1627.2 5	7/2 ⁻	3	0.020	
1641.6 6		(5)	≈0.10	C ² S: for 11/2 ⁻ .
1657.2 8	(5/2 ⁻)	(3)	0.11	E(level): doublet (1655+1660).

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$^{122}\text{Te}(\text{pol d,t})$ 2000Bu15 (continued) ^{121}Te Levels (continued)

E(level)	J^{π}	L	C^2S	Comments
1680.6 5	1/2 ⁺	0	0.0084	
1693.4 5	5/2 ⁺	2	0.019	
1703.0 6	7/2 ⁺ ,9/2 ⁺	4	0.046	C ² S: for 7/2 ⁺ ; 0.028 for 9/2 ⁺ .
1739.6 6				
1754.5 5	1/2 ⁺	0	0.036	
1769.4 6	(11/2) ⁻	5	0.019	
1806.0 7	1/2 ⁻	1	0.017	
1824.2 7	(9/2) ⁻	5	0.029	
1832.0 5		5	≈0.08	C ² S: for 11/2 ⁻ .
1841.6 6	3/2 ⁺	2	0.012	
1854.9 5	1/2 ⁺	0	0.055	
1869.6 5	1/2 ⁻	1	0.044	
1879.5 6	3/2 ⁺	2	0.0047	
1886.8 6	1/2 ⁻	1	0.0095	
1900.0 7	3/2 ⁺ ,5/2 ⁺	2	0.009	C ² S: for 3/2 ⁺ ; 0.007 for 5/2 ⁺ .
1920.1 5	3/2 ⁺	2	0.0078	
1953.1 5	1/2 ⁺	0	0.037	
1973.2 5	3/2 ⁺	2	0.0064	
1989.5 6	3/2 ⁺ ,5/2 ⁺	2	0.0042	C ² S: for 3/2 ⁺ ; 0.0034 for 5/2 ⁺ .
1995.4 6	(5/2 ⁻)	(3)	0.016	
2005.9 7				
2026.0 6	(3/2) ⁺	2	0.0036	
2046.2 15	(5/2) ⁻	3	0.012	
2059.3 6				
2077.1 7		(5)		
2106.4 7	(3/2 ⁺ ,5/2 ⁺)	(2)	0.0017	C ² S: for 3/2 ⁺ ; 0.0014 for 5/2 ⁺ .
2112.3 6	3/2 ⁻	1	0.020	
2129.1 6	(11/2) ⁻	5	0.054	
2136.4 9	(9/2) ⁻	5	0.071	
2149.1 6	1/2 ⁺	0	0.019	
2169.5 6				
2187.8 6	(3/2) ⁺	2	0.006	
2215.9 6	3/2 ⁺ ,5/2 ⁺	2	0.0044	C ² S: for 3/2 ⁺ ; 0.0036 for 5/2 ⁺ .
2236.1 5	3/2 ⁺ ,5/2 ⁺	2	0.0036	C ² S: for 3/2 ⁺ ; 0.0029 for 5/2 ⁺ .
2247.8 5	1/2 ⁻	1	0.012	
2284.3 6	5/2 ⁺	2	0.0036	
2292.5 6	3/2 ⁺ ,5/2 ⁺	2	0.004	C ² S: for 3/2 ⁺ ; 0.003 for 5/2 ⁺ .
2317.5 15	11/2 ⁻	5	0.026	
2339.3 8	3/2 ⁺ ,5/2 ⁺	2	0.0032	C ² S: for 3/2 ⁺ ; 0.0026 for 5/2 ⁺ .
2360.1 6	3/2 ⁺ ,5/2 ⁺	2	0.0060	C ² S: for 3/2 ⁺ ; 0.0049 for 5/2 ⁺ .
2389.4 7	3/2 ⁺	2	0.009	
2406.8 8	11/2 ⁻	5	0.027	
2414.7 6	(7/2 ⁺ ,9/2 ⁺)	(4)	0.040	C ² S: for 7/2 ⁺ ; 0.024 for 9/2 ⁺ .
2426.5 7	1/2 ⁻	1	0.018	
2456.9 5	3/2 ⁺ ,5/2 ⁺	2	0.016	C ² S: for 3/2 ⁺ ; 0.013 for 5/2 ⁺ .
2516.2 5	1/2 ⁻	1	0.048	
2536.8 7	(1/2 ⁻ ,3/2 ⁻)	(1)	0.007	C ² S: for 1/2 ⁻ ; 0.006 for 3/2 ⁻ .
2549.9 6	3/2 ⁺	2	0.0078	
2568.8 8	1/2 ⁺	0	0.006	
2600.2 7				
2611.7 7	(3/2) ⁺	2	0.0045	
2630.2 9				
2641.5 7	(5/2) ⁺	2	0.0040	

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 $^{122}\text{Te}(\text{pol d,t})$ **2000Bu15** (continued) ^{121}Te Levels (continued)

† L- and J-values were deduced from comparison of $\sigma(\theta)$ and analyzing power with DWBA calculations, except where noted otherwise.