^{128}Te $Z = 52$ $N = 76$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1081.441 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
128TE 1	0.000	0+			7.7E+24 Y 4
128TE 2	0.743	2+			3.30 PS 3
128TE 3	1.497	4+			
128TE 4	1.520	2+			1.7 PS +8-4
128TE 5	1.811	6+			0.45 NS 3
128TE 6			1.968	1+,2+,3+	209 FS +17-15
128TE 7			1.972		
128TE 8	1.979	0+			1.4 PS +12-8
128TE 9	2.028	4+			0.37 PS +19-10
128TE 10			2.133 5-		
128TE 11	2.164	3+			0.57 PS +16-10
128TE 12	2.193	2+			49.9 FS 14
128TE 13			2.218	1+,2+,3+	0.4 PS +6-5
128TE 14			2.270	3+,4+,5+	177 FS +28-20
128TE 15	2.308	0+			1.7 PS GT
128TE 16			2.338	(7)-	2.404 NS 24
128TE 17	2.352	2+			137 FS +10-7
128TE 18			2.396 4-		
128TE 19			2.405	(4+,5,6+)	
128TE 20			2.426	3+,4+,5+	86 FS +10-8
128TE 21			2.440 3-		
128TE 22			2.457		
128TE 23			2.482		0.20 PS +5-3
128TE 24			2.485 3-		
128TE 25	2.487	3+			0.32 PS +11-7
128TE 26			2.494	(3)-	236 FS +28-21
128TE 27	2.508	2+			0.37 PS +6-5
128TE 28			2.517		
128TE 29	2.551	3+			0.18 PS +4-3
128TE 30			2.571	4,5	
128TE 31			2.587		
128TE 32			2.599		
128TE 33			2.630	1+,2+,3+	95 FS 10
128TE 34			2.643		0.16 PS +5-8
128TE 35			2.655		
128TE 36			2.665		0.15 PS +46-8
128TE 37			2.689	(8+)	
128TE 38			2.701		

128TE	39				2.707	1+,2+,3+	39	80 FS 6
128TE	40				2.712	1+,2+,3+	40	162 FS 11
128TE	41				2.719		41	
128TE	42				2.736		42	
128TE	43	2.749	3+				43	0.71 PS +53-21
128TE	44				2.750		44	
128TE	45				2.762	3-,4-,5-,6-,7-	45	
128TE	46				2.764		46	16.6 FS 21
128TE	47				2.777		47	
128TE	48				2.790		48	
128TE	49				2.791	(10+)	49	236 NS 20
128TE	50				2.817		50	
128TE	51				2.821	(1,2+)	51	150 FS +19-17
128TE	52				2.831		52	0.29 PS +13-8
128TE	53				2.852	(4+,5,6+)	53	
128TE	54				2.859		54	
128TE	55				2.862		55	
128TE	56				2.869	(1,2+)	56	0.28 PS +13-7
128TE	57				2.885	1+,2+,3+	57	0.39 PS 3
128TE	58				2.885	5	58	98 FS +40-26
128TE	59	2.891	2+				59	187 FS +29-24
128TE	60				2.901		60	
128TE	61				2.904		61	0.67 PS +48-35
128TE	62				2.913		62	1.1 PS +23-5
128TE	63				2.922		63	1.2 PS +23-8
128TE	64				2.924		64	
128TE	65				2.932	3+,4+,5+	65	
128TE	66				2.953		66	
128TE	67				2.955		67	0.7 PS +12-3
128TE	68				2.967	(8-)	68	
128TE	69				2.969		69	
128TE	70	2.983	3+				70	111 FS +31-22
128TE	71				2.986		71	0.3 PS +9-2
128TE	72				2.997		72	102 FS +20-21
128TE	73				2.998		73	
128TE	74				3.030	1,2+	74	0.90 PS +60-42
128TE	75				3.031		75	
128TE	76				3.039		76	
128TE	77				3.048		77	
128TE	78				3.055		78	274 FS +17-12
128TE	79				3.067	3	79	274 FS +17-12
128TE	80				3.072		80	130 FS +40-28
128TE	81				3.091		81	
128TE	82				3.098		82	
128TE	83				3.100	1,2,3	83	117 FS +33-24

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128TE  84 |                |                |   3.101                    84   0.21 PS   +20-8
128TE  85 |                |                |   3.104                    85   113 FS   +22-17
128TE  86 |                |                |   3.125                    86
128TE  87 |                |                |   3.136                    87   0.24 PS  +35-10
128TE  88 |  3.137     2+  |                |                            88   121 FS   +29-21
128TE  89 |                |                |   3.140     2,3            89
128TE  90 |                |                |   3.146                    90
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128TE  91 |                |                |   3.148                    91   0.26 PS   +12-6
128TE  92 |                |                |   3.151     (9-)           92
128TE  93 |                |   3.167     3-  |                            93
128TE  94 |                |                |   3.183     (5)-,(6)+      94
128TE  95 |                |                |   3.185                    95   51 FS     8
S-alpha=   3.187 ( 0.001)-------------------------------------------------------------------------
128TE  96 |                |                |   3.188                    96   0.10 PS   +12-5
128TE  97 |                |                |   3.196                    97
128TE  98 |                |                |   3.199                    98
128TE  99 |                |                |   3.217                    99   76 FS    +83-35
128TE 100 |                |                |   3.219                   100
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128TE 101 |                |                |   3.221                   101
128TE 102 |                |                |   3.249                   102
128TE 103 |                |                |   3.251                   103
128TE 104 |                |                |   3.255                   104
128TE 105 |                |                |   3.286                   105
128TE 106 |                |                |   3.296     (2+,3,4+)     106
128TE 107 |                |                |   3.297                   107
128TE 108 |                |                |   3.304                   108
128TE 109 |                |                |   3.327                   109
128TE 110 |                |                |   3.345                   110
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128TE 111 |                |                |   3.384                   111
128TE 112 |                |                |   3.407                   112
128TE 113 |                |                |   3.416     -             113
128TE 114 |                |                |   3.429                   114
128TE 115 |                |                |   3.440                   115
128TE 116 |                |                |   3.460                   116
128TE 117 |                |                |   3.490                   117
128TE 118 |                |                |   3.508     (12+)         118
128TE 119 |                |                |   3.519                   119
128TE 120 |                |                |   3.570                   120
----------                                                               -----------------
128TE 121 |                |                |   3.588                   121
128TE 122 |                |                |   3.597                   122
128TE 123 |                |                |   3.607                   123
128TE 124 |                |                |   3.637                   124
128TE 125 |                |                |   3.690                   125
128TE 126 |                |                |   3.714     (11-)         126
128TE 127 |                |                |   3.732                   127
128TE 128 |                |                |   3.734                   128
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128TE 129			3.764		129
128TE 130			3.838	(1,2+)	130
128TE 131			4.036		131
128TE 132			4.063		132
128TE 133			4.172		133
128TE 134			4.265		134
128TE 135			4.342	(13-)	135
128TE 136			4.431	(14+)	136
128TE 137			4.527		137
128TE 138			4.668	(14-)	138
128TE 139			4.729	(15-)	139
128TE 140			5.077		140
128TE 141			5.436		141
128TE 142			5.448		142
128TE 143			5.545		143
128TE 144			5.946		144
128TE 145			6.212		145
128TE 146			7.727	1	146

S-p = 9.585 (0.005)
S-n = 8.785 (0.002)
S-2p = 17.557 (0.011)
S-2n = 15.072 (0.002)
S-alpha= 3.187 (0.001)

S+p = -6.802 (0.003)
S+n = -6.082 (0.001)
S+2p = -15.465 (0.001)
S+2n = -14.502 (0.001)
S+alpha = -2.710 (0.001)

gap p = 2.782 (0.006)
gap n = 2.702 (0.002)
gap 2p = 2.092 (0.011)
gap 2n = 0.571 (0.002)
gap alpha = 0.477 (0.002)