

^{126}Te $Z = 52$ $N = 74$ adopted link ENSDF link

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

BE = 1066.368 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
126TE 1	0.000	0+			1 STABLE
126TE 2	0.666	2+			2 4.56 PS 8
126TE 3	1.361	4+			3 2.8 PS +21-9
126TE 4	1.420	2+			4 1.23 PS 12
126TE 5	1.776	6+			5 68 PS 2
126TE 6	1.873	0+			6 0.67 PS +8-6
126TE 7	2.013	4+			7 0.395 PS 35
126TE 8	2.045	2+			8 0.73 PS 5
126TE 9	2.114	0+			9 0.52 PS +7-6
126TE 10	2.128	3+			10 0.59 PS +10-8
126TE 11	2.181	1+			11 0.263 PS 12
126TE 12	2.184	2+			12 0.0658 PS 14
126TE 13			2.218 5-		13 1.4 PS GT
126TE 14	2.309	4+			14 0.312 PS 21
126TE 15				2.351	15
126TE 16			2.386 3-		16 0.159 PS 5
126TE 17			2.386 4-		17
126TE 18	2.396	6+			18 0.09 PS +12-4
126TE 19	2.421	2+			19 0.0284 PS 14
126TE 20				2.480 3+,4+	20 0.284 PS +28-21
126TE 21			2.497 7-		21 0.152 NS 5
126TE 22	2.504	2+			22 0.208 PS +21-14
126TE 23			2.515 5-		23
126TE 24				2.519 4+,5+,6+	24
126TE 25	2.534	4+			25 0.340 PS 14
S-alpha=	2.549 (0.003)				
126TE 26	2.578	3+			26 0.111 PS 7
126TE 27				2.579 0+,1+	27
126TE 28				2.585 2+,3+	28 0.62 PS 8
126TE 29				2.589 5-,6-	29
126TE 30				2.640 +	30 0.152 PS 14
126TE 31				2.661 3+,4+,5+	31 0.21 PS +25-8
126TE 32	2.679	2+			32 0.53 PS +25-13
126TE 33	2.682	2+			33 0.085 PS +5-4
126TE 34				2.686 3+,4+,5+	34 0.174 PS +28-18
126TE 35				2.705 (5+,6+)	35
126TE 36				2.731 (3)+	36 0.43 PS +16-9
126TE 37				2.738 1+,2+,3+	37 0.277 PS +26-18

126TE 38						2.744	(4+)	38	0.202 PS	14
126TE 39		2.766	8+					39		
126TE 40						2.776	4-,5-,6-	40		

126TE 41						2.783	3-,4+	41	0.0499 PS	28
126TE 42						2.790		42	0.38 PS	+13-8
126TE 43						2.801		43		
126TE 44		2.803	2+					44		
126TE 45						2.803	3+,4+	45	0.108 PS	+10-7
126TE 46						2.811	5,6,7	46	0.35 PS	+17-9
126TE 47						2.812	(7-)	47		
126TE 48						2.812	1	48		
126TE 49						2.814	2+,3+	49	0.33 PS	+5-4
126TE 50						2.816	4-,5-	50		

126TE 51						2.834	1+,2+,3+	51	0.136 PS	4
126TE 52						2.838		52	0.004 PS	+4-3
126TE 53						2.840	(6)+	53		
126TE 54						2.859	(3-)	54	0.309 PS	35
126TE 55						2.863	3+,4+	55	0.13 PS	+4-3
126TE 56						2.868	3+,4+,5+	56	0.34 PS	+28-11
126TE 57						2.874		57		
126TE 58		2.877	2+					58	0.160 PS	8
126TE 59		2.898	1+					59	0.152 PS	7
126TE 60						2.912		60	0.122 PS	+28-21

126TE 61						2.927		61	0.7 PS	+15-3
126TE 62						2.930		62		
126TE 63		2.936	2+					63	0.259 PS	12
126TE 64						2.955		64		
126TE 65						2.967	4+,5,6+	65	0.29 PS	+20-9
126TE 66						2.972	2+,3,4+	66	0.193 PS	+33-27
126TE 67						2.974	1	67	0.270 PS	+28-21
126TE 68		2.975	10+					68	10.7 NS	9
126TE 69						2.978		69		
126TE 70						2.990	(8+)	70		

126TE 71		2.994	4+					71	0.172 PS	+20-15
126TE 72						2.996		72		
126TE 73						2.997	3+,4+	73	0.37 PS	+16-9
126TE 74						2.999		74		
126TE 75						3.008	2+,3+	75	0.0201 PS	14
126TE 76						3.014		76	0.22 PS	+14-7
126TE 77						3.015	1-,2+	77	0.091 PS	+9-8
126TE 78						3.018	1+,2+	78		
126TE 79						3.026		79		
126TE 80		3.035	2+					80	0.074 PS	6

126TE 81		3.045	2+					81	0.126 PS	8
126TE 82						3.050		82		

126TE 83				3.066	1-			83	0.4 PS	+14-2
126TE 84						3.070	(8-)	84		
126TE 85						3.071	5-,6,7-	85		
126TE 86						3.073	3+,4+,5+	86		
126TE 87						3.076		87		
126TE 88						3.097		88	0.52 PS	GT
126TE 89						3.101		89		
126TE 90						3.114		90		

126TE 91						3.127		91		
126TE 92						3.131	2-,3-,4-	92		
126TE 93						3.132		93		
126TE 94		3.132	1+					94		
126TE 95						3.142		95		
126TE 96		3.144	2+					96	0.134 PS	+27-21
126TE 97						3.149		97		
126TE 98						3.160		98		
126TE 99		3.167	3+					99	0.182 PS	+24-19
126TE 100						3.172		100		

126TE 101				3.194	9-			101		
126TE 102						3.195	1,2,3	102		
126TE 103						3.197		103		
126TE 104		3.202	2+					104	0.076 PS	+13-11
126TE 105						3.225		105		
126TE 106						3.231		106		
126TE 107						3.244		107		
126TE 108						3.249	1,2+	108		
126TE 109						3.257		109		
126TE 110						3.262	1,2+	110		

126TE 111						3.269		111		
126TE 112						3.301		112		
126TE 113		3.309	2+					113		
126TE 114						3.330		114		
126TE 115						3.349	1,2+	115		
126TE 116						3.372		116		
126TE 117						3.390	(1+,2+,3+)	117		
126TE 118						3.451	6+,7-	118		
126TE 119						3.474		119		
126TE 120						3.576	1,2+	120		

126TE 121						3.602	1,2+	121		
126TE 122						3.688		122		
126TE 123		3.689	12+					123		
126TE 124						3.710	(10-)	124		
126TE 125						3.760	(1,2)	125		
126TE 126				3.766	11-			126		
126TE 127						3.799	1,2+	127		
126TE 128		3.807	2+					128		

126TE 129				3.839	(11+)	129
126TE 130				3.840		130

126TE 131				3.882	(1-,2+)	131
126TE 132				3.923		132
126TE 133				3.927	(2+)	133
126TE 134				3.953	1,2+	134
126TE 135				3.969	2-,3-,4-	135
126TE 136				3.973	1,2+	136
126TE 137				4.024	1,2+	137
126TE 138				4.037		138
126TE 139				4.074		139
126TE 140				4.140		140

126TE 141				4.156		141
126TE 142				4.172	1+,2+	142
126TE 143				4.178	(12-)	143
126TE 144				4.275		144
126TE 145	4.325	2+				145
126TE 146				4.336		146
126TE 147				4.374		147
126TE 148				4.414	(1+,2+,3+)	148
126TE 149				4.433	(12-)	149
126TE 150				4.448		150

126TE 151				4.452		151
126TE 152				4.459	(1+,2+,3+)	152
126TE 153	4.505	2+				153
126TE 154				4.511	(0-,1-,2-)	154
126TE 155				4.539	(14+)	155
126TE 156				4.552	(1+,2+,3+)	156
126TE 157				4.587	0-,1-,2-	157
126TE 158				4.588	(13-)	158
126TE 159				4.635	(14+)	159
126TE 160	4.652	2+				160

126TE 161				4.671	(2+)	161
126TE 162			4.700	1-		162
126TE 163				4.727	(13-)	163
126TE 164				4.747		164
126TE 165				4.767	1+,2,3-	165
126TE 166				4.776	3-,4+	166
126TE 167				4.792	0-,1-,2-	167
126TE 168	4.880	2+				168
126TE 169	4.883	2+				169
126TE 170				4.919	1,2+	170

126TE 171				4.932	(0-,1-,2-)	171
126TE 172				4.935	1,2+	172
126TE 173				5.063	(0-,1-,2-)	173

126TE 174				5.096	(15+)	174
126TE 175				5.115	(15-)	175
126TE 176				5.539	(16+)	176
126TE 177				5.696	(16+)	177
126TE 178				6.060	(17-)	178
126TE 179				7.790		179
126TE 180		7.915		1+		180

S-p = 9.098 (0.003)-----

S-n = 9.114 (0.002)-----

S-2p = 16.411 (0.002)-----

S-2n = 15.683 (0.002)-----

S-alpha= 2.549 (0.003)-----

S+p = -6.208 (0.004)

S+n = -6.288 (0.002)

S+2p = -14.374 (0.001)

S+2n = -15.072 (0.002)

S+alpha = -2.241 (0.001)

gap p = 2.890 (0.005)

gap n = 2.826 (0.003)

gap 2p = 2.036 (0.002)

gap 2n = 0.610 (0.002)

gap alpha = 0.308 (0.003)