

^{124}Te $Z = 52$ $N = 72$ adopted link ENSDF link

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

BE = 1050.686 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
124TE 1	0.000	0+			1 STABLE
124TE 2	0.603	2+			2 6.2 PS 1
124TE 3	1.249	4+			3 1.4 PS +14-5
124TE 4	1.326	2+			4 1.04 PS +21-14
124TE 5	1.657	0+			5 0.55 PS +14-7
124TE 6	1.747	6+			6
S-alpha= 1.851 (0.002)					
124TE 7	1.883	0+			7 0.76 PS +21-14
124TE 8	1.958	4+			8
124TE 9	2.039	3+			9 0.55 PS +14-7
124TE 10	2.039	2+			10 0.49 PS +14-7
124TE 11	2.092	2+			11 0.28 PS 7
124TE 12	2.153	0+			12
124TE 13	2.182	2+			13
124TE 14	2.225	4+			14
124TE 15				2.274	15
124TE 16				2.282	16
124TE 17			2.294 3-		17 0.17 PS 6
124TE 18	2.308	0+			18 0.25 NS LT
124TE 19				2.322 (6+)	19
124TE 20	2.323	2+			20
124TE 21				2.327	21
124TE 22			2.335 5-		22
124TE 23	2.349	6+			23
124TE 24	2.454	2+			24
124TE 25	2.483	4+			25
124TE 26				2.492	26
124TE 27				2.497	27
124TE 28				2.512 4	28
124TE 29	2.521	2+			29
124TE 30	2.530	1+			30
124TE 31				2.534 (3+,4+,5+)	31
124TE 32				2.550 (4)	32
124TE 33				2.579	33
124TE 34				2.590 (6)	34
124TE 35				2.594 5	35
124TE 36	2.601	1+			36
124TE 37				2.619 (3)	37

124TE 38						2.629			38
124TE 39		2.641	2+						39
124TE 40						2.647			40

124TE 41						2.656			41
124TE 42						2.664	6		42
124TE 43		2.664	8+						43
124TE 44						2.674	7(-)		44
124TE 45		2.681	2+						45
124TE 46					2.694	3-			46
124TE 47					2.702	2-			47
124TE 48		2.711	4+						48
124TE 49						2.714	(5,7)		49
124TE 50						2.722	3+,4+		50

124TE 51						2.731	(0+,1+)		51
124TE 52		2.734	2+ TO 6+						52
124TE 53						2.738	6(+)		53
124TE 54						2.747	1(-)		54 27 FS 3
124TE 55		2.767	1+ TO 4+						55
124TE 56						2.774	6(+)		56
124TE 57						2.775	3-,4-		57
124TE 58						2.783	1+,2+		58
124TE 59		2.790	0+ TO 4+						59
124TE 60		2.809	2+						60

124TE 61		2.815	2+ TO 5+						61
124TE 62		2.817	2+						62
124TE 63					2.835	3-			63
124TE 64						2.839	6		64
124TE 65						2.842	(0-,1-,2-)		65
124TE 66						2.844	(5)		66
124TE 67						2.853			67
124TE 68						2.859	2,3		68
124TE 69					2.865	3-			69
124TE 70						2.873	3+,4+,5+		70

124TE 71						2.874	7		71
124TE 72						2.880	5(+)		72
124TE 73						2.884	1,2+		73
124TE 74					2.886	3-			74
124TE 75						2.897	1,2+		75
124TE 76						2.903	(5)		76
124TE 77						2.911	7(-)		77
124TE 78						2.921	(3,4)		78
124TE 79						2.934	6		79
124TE 80						2.940			80

124TE 81		2.946	2+						81
124TE 82		2.948	0+ TO 3+						82

124TE 83					2.954	6		83
124TE 84					2.958	3-,4+		84
124TE 85		2.963	0+ TO 3+					85
124TE 86					2.965	(7-)		86
124TE 87					2.967	(5,6)		87
124TE 88					2.973	(5,6)		88
124TE 89					2.975	1	89 65 FS	9
124TE 90					2.983	2+,3+		90

124TE 91					2.987	(5,6)		91
124TE 92					2.988	1,2+		92
124TE 93					3.001	2+,3		93
124TE 94					3.012			94
124TE 95					3.018			95
124TE 96					3.031			96
124TE 97					3.033	7		97
124TE 98					3.036			98
124TE 99					3.038	8(+)		99
124TE 100		3.040	0+ TO 3+					100

124TE 101		3.045	2+					101
124TE 102					3.049	1,2+		102
124TE 103					3.055	3-,4+		103
124TE 104					3.056	2+,3,4+		104
124TE 105					3.069	6(+)		105
124TE 106		3.083	2+ TO 6+					106
124TE 107		3.089	2+					107
124TE 108					3.092	1,2+		108
124TE 109					3.095	1- TO 4+		109
124TE 110					3.101	1,2+	110 1.04 PS	14

124TE 111					3.108	2+,3,4+		111
124TE 112					3.109	2+,3,4-		112
124TE 113					3.114			113
124TE 114					3.119	2+,3+		114
124TE 115					3.125			115
124TE 116					3.137	8(+)		116
124TE 117					3.139			117
124TE 118		3.143	0+ TO 3+					118
124TE 119					3.149			119
124TE 120					3.154	10(+)		120

124TE 121					3.163	2+,3,4+		121
124TE 122					3.168	2+,3,4+		122
124TE 123					3.181			123
124TE 124					3.207			124
124TE 125		3.211	2+ TO 6+					125
124TE 126					3.212	1-,2+		126
124TE 127		3.218	2+					127
124TE 128		3.220	2+				128 0.12 PS	3

124TE 129				3.231		129
124TE 130		3.235	0+ T0 4+			130

124TE 131				3.238	1,2+	131
124TE 132				3.241	2+,3,4+	132
124TE 133				3.258	2+,3,4+	133
124TE 134				3.261	(6)	134
124TE 135				3.272	8	135
124TE 136				3.280	2+,3,4+	136
124TE 137		3.284	2+			137
124TE 138				3.289	1,2+	138
124TE 139				3.291	9(-)	139
124TE 140				3.302	1,2+	140

124TE 141				3.307	7	141
124TE 142		3.309	2+ T0 6+			142
124TE 143		3.319	0+ T0 4+			143
124TE 144				3.336	8	144
124TE 145				3.337	2+,3+,4+	145
124TE 146				3.349	1,2+	146
124TE 147				3.351	9(-)	147
124TE 148		3.355	2+ T0 6+			148
124TE 149				3.365	(7)	149
124TE 150				3.368	9	150

124TE 151				3.370	8	151
124TE 152		3.370	0+ T0 4+			152
124TE 153				3.383	(7)	153
124TE 154				3.394	1+,2+	154
124TE 155				3.400	2+,3+	155
124TE 156				3.409	9	156
124TE 157				3.423	6(+)	157
124TE 158				3.430	1-,2,3+	158
124TE 159		3.439	0+ T0 4+			159
124TE 160				3.443	1,2+	160

124TE 161				3.444	(5,6)	161
124TE 162				3.451	1-,2+	162
124TE 163				3.453	(6)	163
124TE 164				3.457	2+,3,4+	164
124TE 165				3.460	1,2+	165
124TE 166		3.475	0+ T0 4+			166
124TE 167				3.476	(6,7)	167
124TE 168		3.479	0+ T0 3+			168
124TE 169				3.480	6(+)	169
124TE 170				3.487	1,2+	170

124TE 171		3.490	0+ T0 3+			171
124TE 172		3.498	2+ T0 6+			172
124TE 173				3.513	5,6,7	173

124TE 174				3.527	(7,8)	174
124TE 175				3.530	1-,2+	175
124TE 176				3.538	1,2+	176
124TE 177				3.543	1-,2+	177
124TE 178				3.550	10(+)	178
124TE 179				3.554	7	179
124TE 180				3.576	2+,3+,4+	180

124TE 181		3.588	0+ T0 4+			181
124TE 182				3.599	9(-)	182
124TE 183				3.599	2+,3,4+	183
124TE 184				3.622	1-,2+	184
124TE 185				3.629	1,2+	185
124TE 186				3.652	(7)	186
124TE 187				3.653	1,2+	187
124TE 188		3.654	2+			188 39 FS 9
124TE 189				3.662	2+,3,4+	189
124TE 190		3.667	1+ T0 3+			190

124TE 191		3.686	0+ T0 4+			191
124TE 192				3.703	8	192
124TE 193		3.710	2+			193
124TE 194				3.714	(8,9)	194
124TE 195				3.724	2+,3,4+	195
124TE 196				3.756	1,2+	196
124TE 197				3.774	1,2+	197
124TE 198		3.805	0+ T0 3+			198
124TE 199		3.810	0+ T0 3+			199
124TE 200				3.836	(9)	200

124TE 201				3.845	8	201
124TE 202				3.851	11	202
124TE 203		3.854	0+ T0 3+			203
124TE 204		3.863	0+ T0 3+			204
124TE 205				3.872	(9,10)	205
124TE 206				3.880	1,2+	206
124TE 207				3.885	1,2+	207
124TE 208		3.904	0+ T0 3+			208
124TE 209				3.929	1,2+	209
124TE 210				3.932	10	210

124TE 211				3.945	1,2+	211
124TE 212				3.946	1,2+	212
124TE 213				3.967	1-,2+	213
124TE 214				3.985	(8)	214
124TE 215				3.989	11(-)	215
124TE 216		3.989	0+ T0 3+			216
124TE 217		3.996	0+ T0 4+			217
124TE 218				3.998	1,2+	218
124TE 219				4.011	1,2+	219

124TE 220		4.030	0+ TO 3+				220

124TE 221					4.033	11(-)	221
124TE 222					4.034	(10)	222
124TE 223					4.044	0+ TO 3(-)	223
124TE 224					4.051	11	224
124TE 225		4.052	0+ TO 3+				225
124TE 226		4.057	0+ TO 4+				226
124TE 227					4.090	1,2+	227
124TE 228		4.099	0+ TO 3+				228
124TE 229					4.114	(9,10)	229
124TE 230		4.114	0+ TO 4+				230

124TE 231					4.118	1,2+	231
124TE 232					4.128	1,2+	232
124TE 233					4.142	2+,3,4+	233
124TE 234					4.144	0+ TO 3(-)	234
124TE 235					4.147	1,2+	235
124TE 236		4.155	2+ TO 6+				236
124TE 237					4.171	1,2+	237
124TE 238					4.174		238
124TE 239					4.178	1,2+	239
124TE 240					4.195	1,2	240

124TE 241					4.215	1,2+	241
124TE 242					4.229	1,2+	242
124TE 243					4.238		243
124TE 244		4.241	0+ TO 4+				244
124TE 245		4.245	0+ TO 3+				245
124TE 246					4.270	1,2+	246
124TE 247					4.286		247
124TE 248		4.289	2+				248
124TE 249		4.303	0 TO +				249
124TE 250					4.324	1,2+	250

124TE 251					4.327	1,2+	251
124TE 252		4.375	0+ TO 4+				252
124TE 253		4.379	0+ TO 3+				253
124TE 254		4.415	0+ TO 3+				254
124TE 255					4.439	0+ to 3(-)	255
124TE 256		4.445	0+ TO 3+				256
124TE 257		4.454	0+ TO 3+				257
124TE 258					4.487	1,2+	258
124TE 259		4.501	0+ TO 3+				259
124TE 260					4.504	0 TO 2	260

124TE 261		4.524	0+ TO 3+				261
124TE 262		4.528	0+ TO 3+				262
124TE 263					4.551	1,2+	263
124TE 264					4.569	1,2+	264

124TE 265				4.581	1,2+	265
124TE 266				4.598	1,2+	266
124TE 267				4.630	1,2+	267
124TE 268				4.643	1,2+	268
124TE 269				4.698	1,2+	269
124TE 270	4.702	0+ T0 4+				270

124TE 271	4.713	0+ T0 3+				271
124TE 272	4.723	0+ T0 3+				272
124TE 273	4.737	0+ T0 4+				273
124TE 274				4.740	1,2+	274
124TE 275				4.755	1,2+	275
124TE 276				4.764	1,2+	276
124TE 277	4.811	0+ T0 3+				277
124TE 278	4.818	0+ T0 3+				278
124TE 279				4.883	1,2+	279
124TE 280				4.889	1,2+	280

124TE 281	4.898	0+ T0 3+				281
124TE 282				4.911	2+,3+	282
124TE 283				4.916	1,2+	283
124TE 284	4.932	0+ T0 3+				284
124TE 285				4.942	1,2+	285
124TE 286	4.963	0+ T0 3+				286
124TE 287	4.980	0+ T0 3+				287
124TE 288	4.985	0+ T0 3+				288
124TE 289	4.990	0+ T0 3+				289
124TE 290				4.994	1,2+	290

124TE 291				5.037	1,2+	291
124TE 292				5.051	1,2+	292
124TE 293				5.076	1,2+	293
124TE 294	5.127	0+ T0 4+				294
124TE 295				5.132	1,2+	295
124TE 296				5.156	1,2+	296
124TE 297				5.170	1,2+	297
124TE 298	5.286	0+ T0 4+				298
124TE 299	5.319	0+ T0 3+				299
124TE 300	5.424	0+ T0 3+				300

124TE 301				5.445	1,2+	301
124TE 302				5.489	1,2+	302
124TE 303	5.751	0+ T0 3+				303

S-p = 8.590 (0.002)-----
S-n = 9.424 (0.002)-----
S-2p = 15.162 (0.003)-----
S-2n = 16.354 (0.002)-----
S-alpha= 1.851 (0.002)-----

S+p = -5.601 (0.002)
S+n = -6.569 (0.002)
S+2p = -13.200 (0.001)
S+2n = -15.683 (0.002)
S+alpha = -1.761 (0.001)

gap p = 2.990 (0.003)
gap n = 2.855 (0.003)
gap 2p = 1.962 (0.003)
gap 2n = 0.671 (0.003)
gap alpha = 0.090 (0.002)