

^{50}Ti $Z = 22$ $N = 28$ adopted link ENSDF link

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

BE = 437.786 (0.000) MeV

	Energy T	J+		J-		J-other		T1/2
50TI	1	0.000	0+					1 STABLE
50TI	2	1.554	2+					2 1.047 PS 35
50TI	3	2.675	4+					3 5.3 PS 11
50TI	4	3.199	6+					4 418 PS 20
50TI	5					3.863	(2,3)+	5
50TI	6	3.868	0+					6 0.50 PS 23
50TI	7					3.975		7
50TI	8					4.147	3-,4-	8
50TI	9	4.147	4+					9 33 FS +7-5
50TI	10	4.172	3+					10 0.83 PS GT
50TI	11					4.173	(2+)	11 11 FS LT
50TI	12	4.310	2+					12 6.1 FS 12
50TI	13			4.410	3-			13 2.8 NS LT
50TI	14					4.487	(2+)	14
50TI	15					4.536		15
50TI	16					4.576		16
50TI	17	4.790	2+					17 14 FS LT
50TI	18	4.881	5+					18 215 FS +45-35
50TI	19					4.928	(1:6)-	19
50TI	20					4.940	(2)+	20
50TI	21					5.110		21
50TI	22					5.186	(3,4)+	22 6.9 FS LT
50TI	23					5.191	3-,4-	23
50TI	24					5.282		24
50TI	25					5.334	(4,5,6)-	25
50TI	26	5.380	4+					26 33 FS +9-7
50TI	27					5.407	3-,4-	27
50TI	28					5.441	4+,5+	28
50TI	29					5.528	3-,4-	29
50TI	30					5.548	(4+)	30
50TI	31					5.560	(3)-	31
50TI	32					5.561	(2:5)+	32
50TI	33					5.600	(2:5)+	33
50TI	34	5.633	0+					34
50TI	35					5.695	2+,3+	35
50TI	36					5.717		36
50TI	37					5.771	3-,4-	37
50TI	38					5.787	(4)+	38

50TI	39						5.795	(1:6)-	39
50TI	40						5.807	4+,5+	40

50TI	41						5.837	(2:5)(+)	41 26 FS +19-14
50TI	42						5.880	(0:7)+	42
50TI	43						5.945	(3)-	43
50TI	44						5.946	3+,4+	44 19 FS 5
50TI	45						6.044	3-,4-	45
50TI	46		6.045		0+				46
50TI	47						6.072	(2)+	47
50TI	48						6.123	(4+)	48 38 FS +12-9
50TI	49						6.136	(7)+	49
50TI	50						6.156	(2,3,4+)	50

50TI	51						6.172	(2:5)+	51
50TI	52						6.212	(1:6)(-)	52
50TI	53						6.249	(0:7)+	53
50TI	54						6.302	(1,2,3)-	54
50TI	55						6.380	(5)-	55 19 FS LT
50TI	56						6.392	(2:5)+	56
50TI	57						6.400	(3)-	57
50TI	58						6.400		58
50TI	59						6.461	(1:6)-	59
50TI	60		6.481		3+				60 17 FS LT

50TI	61						6.521	3+,4+	61 7.6 FS +35-28
50TI	62						6.541	(8)+	62
50TI	63						6.548		63
50TI	64						6.583	(1:6)-	64
50TI	65						6.608	(3)-	65
50TI	66						6.636	(0:7)+	66
50TI	67						6.665	(1:6)-	67
50TI	68		6.711		4+				68 11 FS 5
50TI	69					6.730	3-		69
50TI	70						6.766	(0:7)+	70

50TI	71						6.771	(9)+	71
50TI	72						6.838	(2+,3,4+)	72
50TI	73						6.849	(5)-	73
50TI	74						6.864	(5)+	74
50TI	75						6.933		75
50TI	76						6.975	3-,4-	76
50TI	77						7.029	2+,3+,4+	77
50TI	78						7.047	(3)-	78
50TI	79						7.049	(2:5)+	79
50TI	80						7.079	(3)-	80

50TI	81						7.094	(1:6)-	81
50TI	82						7.115	(1)+	82
50TI	83					7.132	3-		83

50TI 84	7.190	0+				84
50TI 85					7.210 (3)-	85
50TI 86					7.232 (2)+	86
50TI 87					7.249 (2:5)+	87
50TI 88					7.280 (1:7)+	88
50TI 89					7.293	89
50TI 90					7.335 (2)+	90

50TI 91					7.382 (3)-	91
50TI 92					7.407 (2:5)+	92
50TI 93					7.441	93
50TI 94					7.471 (2:5)+	94
50TI 95					7.483 (2)+	95
50TI 96					7.536 (3)-	96
50TI 97					7.540	97
50TI 98					7.573 (10)+	98
50TI 99					7.577 0+,1+	99
50TI 100					7.605 (3-,4-)	100

50TI 101					7.631 (5)+	101
50TI 102					7.667 (2)+	102
50TI 103					7.699 (3)-	103
50TI 104					7.734	104
50TI 105					7.808 (0+)	105
50TI 106					7.867 0+,1+	106
50TI 107					7.924 (5)-	107
50TI 108					7.941	108
50TI 109					8.034 (4)+	109
50TI 110					8.079 (1)+	110

50TI 111					8.150	111
50TI 112					8.150	112
50TI 113					8.203 (3)-	113
50TI 114					8.241 0+,1+	114
50TI 115					8.258	115
50TI 116					8.290 (3)-	116
50TI 117					8.407	117
50TI 118					8.444 0+,1+	118
50TI 119	8.560	1+				119
50TI 120					8.578 (3)-	120

50TI 121					8.606 (1)+	121
50TI 122			8.640	2-		122
50TI 123					8.650	123
50TI 124					8.725 (2-)	124
50TI 125					8.755	125
50TI 126					8.794 (11+)	126
50TI 127	8.810	1+				127
50TI 128					8.815 (3)-	128
50TI 129					8.870 (2+)	129

50TI 130				8.883	(2,3)-	130
50TI 131				8.973	(3)-	131
50TI 132				9.030	(1)+	132
50TI 133		9.050	2-			133
50TI 134				9.061		134
50TI 135				9.127		135
50TI 136				9.188		136
50TI 137	9.210	1+				137
50TI 138				9.232	(4+,5-)	138
50TI 139				9.240	(1+,2)	139
50TI 140				9.280	(1,2-)	140
50TI 141				9.282	(5-,6+)	141
50TI 142				9.300		142
50TI 143				9.339	(3)-	143
50TI 144				9.368	(1+)	144
50TI 145				9.391	(4)+	145
50TI 146				9.442		146
50TI 147				9.504		147
50TI 148				9.508	(5-,6+)	148
50TI 149				9.550		149
50TI 150				9.614	(1)+	150
50TI 151				9.752	(3)-	151
50TI 152				9.790	0+,1+	152
50TI 153				9.809		153
50TI 154				9.842	(4-,5+)	154
50TI 155				9.909	(3)-	155
50TI 156	9.957	1+				156
50TI 157				9.999	(3)-	157
50TI 158				10.000	(2-,1+)	158

S-p = 12.158 (0.002)-----
S-n = 10.939 (0.000)-----
S-2p = 21.785 (0.000)-----
S-2n = 19.082 (0.000)-----
S-alpha= 10.717 (0.002)-----

S+p = -8.060 (0.000)
S+n = -6.372 (0.000)
S+2p = -18.566 (0.000)
S+2n = -14.188 (0.003)
S+alpha = -7.928 (0.000)

gap p = 4.098 (0.002)
gap n = 4.567 (0.001)
gap 2p = 3.219 (0.000)
gap 2n = 4.893 (0.003)

gap alpha = 2.789 (0.002)