

^{44}Ti $Z = 22$ $N = 22$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 375.475 (0.001) MeV

Qbeta+ = 0.267 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
44TI 1	0.000	0+			1 59.1 Y 3
44TI 2	1.083 0	2+			2 3.1 PS 8
44TI 3	1.904	0+			3 480 FS GT
44TI 4	2.454 0	4+			4 0.42 PS 7
44TI 5	2.531 0	2+			5 0.97 PS 14
44TI 6	2.887	2+			6 0.36 PS 7
44TI 7			3.176 3-		7 21.6 PS AP
44TI 8	3.364	4+			8 345 FS 70
44TI 9				3.415 (2,3)	9 485 FS 70
44TI 10			3.646 4-		10 2.7 PS 9
44TI 11			3.756 1-		11 165 FS 35
44TI 12			3.943 3-		12 0.83 PS 21
44TI 13	3.980	4+			13 345 FS 140
44TI 14	4.015 0	6+			14 390 FS 55
44TI 15				4.061 (3,5)-	15 1.5 PS +13-5
44TI 16	4.116 0	2+			16 110 FS 50
44TI 17				4.227 (2-,3-)	17
44TI 18				4.500 (6+)	18
44TI 19	4.605	0+			19
44TI 20				4.792	20 345 FS 140
44TI 21				4.803 0 (6+)	21
44TI 22	4.840	0+			22
44TI 23			5.055 3-		23
S-alpha=	5.127 (0.001)				
44TI 24				5.151 (6-)	24
44TI 25			5.250 5-		25
44TI 26			5.305 5-		26 345 FS 140
44TI 27			5.421 3-		27
44TI 28				5.671 (7-)	28
44TI 29	6.030	2+			29
44TI 30			6.220 1-		30
44TI 31				6.509 (8+)	31 0.5 PS LT
44TI 32				6.572 (8+)	32
44TI 33	6.606 1	2+			33
44TI 34				6.810 (0,2)+	34
44TI 35				6.849 (6+)	35
44TI 36				6.924 (8-)	36

44TI	37						6.959	1	(4+)		37	
44TI	38		7.216	1	1+						38	
44TI	39						7.340		3-		39	
44TI	40									7.408	(9-)	40

44TI	41		7.458		8+							41
44TI	42						7.500		1-			42
44TI	43									7.560	(3-)	43
44TI	44									7.634		44
44TI	45		7.670		6+							45
44TI	46									7.671	(10+)	46
44TI	47									8.040	(12+)	47
44TI	48						8.040		3-			48
44TI	49									8.067		49
44TI	50						8.170		1-			50

44TI	51									8.180	(1-,2+)	51
44TI	52									8.318		52
44TI	53		8.385		2+							53
44TI	54									8.416	(0+,1-)	54
44TI	55									8.449	(2+,3-)	55
44TI	56		8.511		2+							56
44TI	57									8.534	(2+,3-)	57
44TI	58		8.565		2+							58
44TI	59		8.627		2+							59
44TI	60		8.639		2+							60

S-p	=		8.649	(0.002)		-----					
44TI	61		8.756		2+							61
44TI	62									8.861	(10-)	62
44TI	63									8.947	(4+)	63
44TI	64						8.954		1-			64
44TI	65		8.960		2+							65
44TI	66									8.984	(10+)	66
44TI	67		8.987		2+							67
44TI	68		8.992		4+							68
44TI	69									9.030		69
44TI	70									9.075	(2+)	70

44TI	71		9.100		4+							71
44TI	72		9.126		2+							72
44TI	73									9.143	(0+)	73
44TI	74									9.180		74
44TI	75		9.191		4+							75
44TI	76		9.215		2+							76
44TI	77		9.227	1	2+							77
44TI	78		9.239	0	2+							78
44TI	79									9.280		79
44TI	80									9.290	1+2	80

44TI 81		9.299	1+2	0+						81
44TI 82		9.338	1+2	0+						82
44TI 83		9.350		4+						83
44TI 84								9.361	(2+,3-)	84
44TI 85						9.385	3-			85
44TI 86						9.400	5-			86
44TI 87		9.432		4+						87
44TI 88								9.478		88
44TI 89						9.491	3-			89
44TI 90		9.500		10+						90

44TI 91		9.522		2+						91
44TI 92								9.542		92
44TI 93		9.563		0+						93
44TI 94						9.589	5-			94
44TI 95								9.632		95
44TI 96								9.668		96
44TI 97		9.682		0+						97
44TI 98								9.698	(2+)	98
44TI 99								9.713	(4+)	99
44TI 100								9.723	(11-)	100

44TI 101								9.741	(2+)	101
44TI 102		9.780		0+						102
44TI 103						9.845	3-			103
44TI 104						9.880	3-			104
44TI 105								9.895		105
44TI 106								9.908	(0+)	106
44TI 107								9.918	(0+)	107
44TI 108		9.950		0+						108
44TI 109		9.977		0+						109
44TI 110		10.010		2+						110

44TI 111		10.027		2+						111
44TI 112								10.046		112
44TI 113		10.072		0+						113
44TI 114								10.113	(3-)	114
44TI 115								10.129	(1,2)	115
44TI 116								10.166		116
44TI 117								10.182	(0+)	117
44TI 118								10.209	(0,1,2)	118
44TI 119								10.227	(2+)	119
44TI 120								10.258		120

44TI 121								10.280	(0+)	121
44TI 122								10.303		122
44TI 123								10.327		123
44TI 124								10.386	(2+,3-)	124
44TI 125								10.460	(0+)	125
44TI 126								10.464	(12-)	126

44TI 127						10.520		127
44TI 128						10.590	(0+)	128
44TI 129		10.700		4+				129
44TI 130		10.860		0+				130

44TI 131		11.040		4+				131
44TI 132		11.072		0+				132
44TI 133						11.086		133
44TI 134						11.110	(5-,6+)	134
44TI 135		11.191		0+				135
44TI 136		11.496		12+				136
44TI 137						11.536	(13-)	137
44TI 138						11.547		138
44TI 139						11.660	3-	139
44TI 140						11.691	1-	140

44TI 141						11.727	1-	141
44TI 142						11.810	(4+,5-)	142
44TI 143						11.835	(12+)	143
44TI 144						11.950	7-	144
44TI 145		12.110		4+				145
44TI 146		12.118		2+				146
44TI 147		12.172		2+				147
44TI 148						12.200		148
44TI 149						12.563	(3-)	149
44TI 150		12.580		4+				150

44TI 151						12.772	3-	151
44TI 152						12.854	(4+)	152
44TI 153						13.000		153
44TI 154						13.240	(3-,4+)	154
44TI 155						13.370	(15-)	155
44TI 156						13.440	5-	156

S-2p	=	13.579 (0.001)	-----					
44TI 157						13.782	(14-)	157
44TI 158						13.970	3-	158
44TI 159						14.100		159
44TI 160						14.270	(4+,5-)	160

44TI 161						14.550		161
44TI 162						14.710	(5-,6+)	162
44TI 163						14.830	(3-,4+)	163
44TI 164						15.450		164
44TI 165						15.950		165
44TI 166						16.020		166

S-p	=	8.649 (0.002)	-----					
S-n	=	16.299 (0.007)	-----					
S-2p	=	13.579 (0.001)	-----					

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S-2n = 28.587 ( 0.001)-----  
S-alpha= 5.127 ( 0.001)-----  
  
S+p = -1.626 ( 0.001)  
S+n = -9.533 ( 0.001)  
S+2p = -6.501 ( 0.011)  
S+2n = -22.722 ( 0.001)  
S+alpha = -7.698 ( 0.007)  
  
gap p = 7.023 ( 0.002)  
gap n = 6.766 ( 0.007)  
gap 2p = 7.078 ( 0.011)  
gap 2n = 5.865 ( 0.001)  
gap alpha = -2.571 ( 0.007)
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