

^{48}Ti $Z = 22$ $N = 26$ adopted link ENSDF link

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

BE = 418.705 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
48TI 1	0.000	0+			1 STABLE
48TI 2	0.984	2+			2 4.5 PS 4
48TI 3	2.296	4+			3 0.87 PS 13
48TI 4	2.421	2+			4 30.4 FS 23
48TI 5				2.465	5
48TI 6	2.997	0+			6 80 FS 14
48TI 7	3.062	2+			7
48TI 8	3.224	3+			8 33 FS 6
48TI 9	3.240	4+			9 46 FS 11
48TI 10	3.333	6+			10 8.9 PS 8
48TI 11			3.359 3-		11 186 FS +38-34
48TI 12	3.371	2+			12 11.2 FS 14
48TI 13	3.509	6+			13 1.9 PS 5
48TI 14	3.617	2+			14 43 FS 13
48TI 15				3.700 1(-)	15 11.3 FS 21
48TI 16				3.712	16
48TI 17	3.739	1+			17 3.1 FS 18
48TI 18				3.782 3-,4-	18 1.2 PS +11-6
48TI 19			3.803 2-		19
48TI 20	3.851	0+			20
48TI 21			3.852 3-		21 32 FS 6
48TI 22	4.035	2+			22 22 FS 13
48TI 23				4.047 5(-)	23 0.37 PS 11
48TI 24	4.075	2+			24 35 FS 11
48TI 25	4.077	4+			25
48TI 26	4.102	1+			26
48TI 27				4.157	27
48TI 28				4.197 (2+)	28
48TI 29				4.205 (1,2+)	29
48TI 30			4.210 2-		30
48TI 31	4.254	1+			31
48TI 32	4.311	1+			32 3.8 FS +39-17
48TI 33				4.347 (2+)	33
48TI 34				4.381 (3,4,5-)	34 25 FS 14
48TI 35	4.388	4+			35 37 FS 14
48TI 36	4.399	6+			36 45 FS 14
48TI 37				4.405 5(+)	37 42 FS LT
48TI 38				4.407 (2+)	38

48TI 39		4.457	3+						39	49 FS	24
48TI 40					4.472	3-			40		

48TI 41								4.530	3-,4-		41
48TI 42		4.535	0+								42
48TI 43								4.565	8(+)	3.5 PS	GT
48TI 44								4.567	(-)		44
48TI 45					4.581	3-				38 FS	16
48TI 46		4.589	0+								46
48TI 47		4.719	4+							66 FS	18
48TI 48								4.758	(3-)		48
48TI 49								4.783	(2+,3,4+)		49
48TI 50								4.792	(1-,2,3-)	28 FS	14

48TI 51								4.794	(2+)		51
48TI 52								4.795	(3-,4)	70 FS	35
48TI 53								4.861	2+,3+,4+	21 FS	11
48TI 54								4.885	(2+,3+,4+)		54
48TI 55								4.911	(1+,2+)		55
48TI 56					4.916	5-				0.19 PS	11
48TI 57								4.925	(2,3,4)+	21 FS	11
48TI 58								4.940	(2,3,4)+		58
48TI 59								4.957	(4+,5,6-)	1.0 PS	GT
48TI 60		4.966	2+								60

48TI 61		4.971	0+								61
48TI 62					4.992	5-					62
48TI 63								5.063			63
48TI 64		5.146	4+							50 FS	28
48TI 65								5.156	5(+)	7 FS	LT
48TI 66		5.158	4+							25 FS	LT
48TI 67		5.170	7+							28 FS	12
48TI 68								5.170	(2,3,4,5)+		68
48TI 69		5.198	8+							76 FS	24
48TI 70		5.241	1+								70

48TI 71								5.252	(2+,3,4,5-)	49 FS	+20-24
48TI 72								5.273	(1-,2)		72
48TI 73								5.301	(4+,5,6)	35 FS	LT
48TI 74								5.313	(5-)	69 FS	28
48TI 75		5.313	2+								75
48TI 76								5.340	1(-)		76
48TI 77								5.356	(2+,3,4+)		77
48TI 78								5.384	(3)-		78
48TI 79		5.391	4+								79
48TI 80								5.461	2+,3+,4+,5+		80

48TI 81		5.491	2+								81
48TI 82		5.501	4+							26 FS	12
48TI 83					5.522	3-					83

48TI 84						5.526	1		84
48TI 85						5.546	(4+:8+)		85
48TI 86				5.546	3-				86
48TI 87						5.562	(3-)		87
48TI 88		5.568	2+						88
48TI 89						5.616	(3)-		89
48TI 90		5.620	2+						90

48TI 91						5.631	7		91 24 FS 14
48TI 92		5.640	1+						92 0.96 FS LT
48TI 93				5.641	3-				93 24 FS 11
48TI 94		5.657	1+						94
48TI 95						5.760	(3-)		95
48TI 96						5.763	(4+,5,6+)		96
48TI 97		5.764	2+						97
48TI 98						5.805	3-,4-		98 21 FS 12
48TI 99				5.827	3-				99
48TI 100				5.846	3-				100 21 FS LT

48TI 101						5.884	(3-)		101
48TI 102		5.885	2+						102
48TI 103						5.887	(4+:8+)		103
48TI 104						5.888	(1,2,3)		104
48TI 105						5.892	(1-,2+)		105
48TI 106		5.918	2+						106
48TI 107						5.975	(4+,5,6)		107
48TI 108						5.988	1+,3+		108
48TI 109						5.991	(4+,5,6+)		109
48TI 110						5.994	(2)+		110

48TI 111						6.022	(3-)		111
48TI 112						6.035	9+,7+		112 21 FS LT
48TI 113		6.037	4+						113
48TI 114						6.040	6		114 25 FS 17
48TI 115						6.040	(1,2)		115
48TI 116						6.042	(2,3)		116
48TI 117						6.050			117
48TI 118						6.054	(0+:4+)		118
48TI 119				6.065	3-				119
48TI 120						6.084	(4+,5,6-)		120

48TI 121						6.086	1		121
48TI 122						6.103	10(+),8		122 1.4 PS GT
48TI 123		6.115	2+						123
48TI 124						6.120	(4+,5)		124
48TI 125		6.122	0+						125
48TI 126						6.126	1		126
48TI 127						6.138	1(+)		127
48TI 128						6.148	(4+:8+)		128
48TI 129						6.154	(4+:7-)		129

48TI 130				6.168	3-,4-	130		
48TI 131				6.173	8+,6+	131	35 FS	28
48TI 132				6.176	(2+,3,4,5-)	132		
48TI 133				6.184	(2+:6+)	133		
48TI 134			6.203	2-		134		
48TI 135				6.224	(0+:4+)	135		
48TI 136			6.234	3-		136		
48TI 137	6.236	2+				137		
48TI 138				6.241	(4+,5-)	138		
48TI 139				6.244	(0+:3+)	139		
48TI 140			6.254	3-		140		
48TI 141				6.268	(3-)	141		
48TI 142				6.314	(4+,5-)	142		
48TI 143				6.315	(2+,3,4+)	143		
48TI 144				6.322	(2,3,4)	144		
48TI 145				6.331	(1+:5+)	145		
48TI 146			6.337	3-		146		
48TI 147				6.364	(3,4)+	147		
48TI 148			6.365	3-		148		
48TI 149				6.395	(6+,7-)	149		
48TI 150				6.401	(4+:8+)	150		
48TI 151				6.406	(1-:5-)	151		
48TI 152				6.415	(2+:6+)	152		
48TI 153				6.435	(3-:7-)	153		
48TI 154				6.451	(2+,3,4)	154		
48TI 155				6.461	(4+:8+)	155		
48TI 156			6.475	3-		156		
48TI 157				6.490	(2+,3)	157		
48TI 158				6.492	(0+:4+)	158		
48TI 159				6.494	(4+,5,6,7-)	159		
48TI 160				6.508	(6+,7-)	160		
48TI 161	6.518	4+				161		
48TI 162				6.525	(4+:8+)	162		
48TI 163				6.530	(1-:6-)	163		
48TI 164				6.537	(4+:7-)	164		
48TI 165				6.539		165		
48TI 166				6.542	(0+:4+)	166		
48TI 167				6.545	(2+:6+)	167		
48TI 168				6.574	(5,6,7+)	168		
48TI 169				6.584	(3-)	169		
48TI 170			6.604	1-		170	0.86 EV	20
48TI 171				6.618	(4+:8+)	171		
48TI 172				6.628	(0-,1,2,3)	172		
48TI 173				6.634	(3-,4,5-)	173		
48TI 174				6.653	(1-:6-)	174		

48TI 175				6.662	(3-:7-)	175		
48TI 176				6.673	(2,3,4)+	176		
48TI 177				6.707	(2+,3,4)	177		
48TI 178				6.707	(2+,3,4+)	178		
48TI 179				6.712	(4+,5,6,7-)	179		
48TI 180		6.722	3-			180		

48TI 181				6.740	(2+,3-)	181		
48TI 182				6.745	(4+,5,6+)	182		
48TI 183	6.755	3+				183		
48TI 184				6.758	(6+,7,8,9)	184		
48TI 185				6.771	(4+:8+)	185		
48TI 186				6.798	(1+,2,3,4)	186		
48TI 187				6.808		187		
48TI 188				6.815	(3-)	188		
48TI 189				6.826	(4+:8+)	189		
48TI 190				6.828	(2+,3,4+)	190		

48TI 191				6.832	(0+:4+)	191		
48TI 192		6.842	3-			192		
48TI 193				6.869	(1-:5-)	193		
48TI 194				6.878	(0+:4+)	194		
48TI 195				6.881	(6+,7-)	195	125 FS	+69-56
48TI 196				6.886	(4+:8+)	196		
48TI 197				6.898	(1,2+)	197		
48TI 198				6.907	10,8,6	198	97 FS	+76-63
48TI 199				6.917	(3-:7-)	199		
48TI 200				6.945	(4+,5,6,7-)	200		

48TI 201				6.956	(5+:8+)	201		
48TI 202				6.957	(1-,2,3,4+)	202		
48TI 203				6.967	(2+:6+)	203		
48TI 204				6.972	(0+:4+)	204		
48TI 205				6.975	(3-:7-)	205		
48TI 206				6.976	(1,2,3,4+)	206		
48TI 207		6.979	1-			207		
48TI 208				6.983	(1-:5-)	208		
48TI 209				6.986	(6+,7)	209		
48TI 210				7.034	(4+)	210		

48TI 211				7.041	(6+,7,8,9+)	211		
48TI 212				7.041	1,2	212		
48TI 213				7.054	(3-)	213		
48TI 214				7.061	(0-,1,2,3-)	214		
48TI 215				7.067	(3-,4+)	215		
48TI 216	7.071	1+				216		
48TI 217				7.076	(6+:10+)	217		
48TI 218				7.094	(5+:8+)	218		
48TI 219				7.101	(2+:6+)	219		
48TI 220				7.110	1	220		

48TI 221				7.112	(5:9)	221		
48TI 222				7.119	(6+,7-)	222		
48TI 223			7.124	1-		223		
48TI 224				7.129	(2+)	224		
48TI 225				7.150	(4+:8+)	225		
48TI 226				7.163	(4+:8+)	226		
48TI 227				7.184	(0+:4+)	227		
48TI 228				7.199	(0+:4+)	228		
48TI 229				7.222	(1,2,3,4+)	229		
48TI 230	7.222	1+				230		
48TI 231				7.257	(4)+	231		
48TI 232				7.275	(4+)	232		
48TI 233	7.290	3+				233		
48TI 234			7.323	3-		234		
48TI 235				7.327	(6+:10+)	235		
48TI 236				7.345	(4+:8+)	236		
48TI 237				7.354	(5:9)	237		
48TI 238	7.359	2+				238		
48TI 239				7.375	11,9,7	239	28 FS	+42-28
48TI 240				7.388		240		
48TI 241				7.428	9,7	241	0.7 PS	GT
48TI 242				7.432	(2,3,4)+	242		
48TI 243				7.443	(4+,5,6+)	243		
48TI 244			7.450	1-		244		
48TI 245				7.477	(3+:7+)	245		
48TI 246				7.484	(0+:4+)	246		
48TI 247				7.484	1	247		
48TI 248				7.498	(4+)	248		
48TI 249				7.532	(6+,7,8+)	249		
48TI 250				7.536		250		
48TI 251				7.542	(2+,3,4+)	251		
48TI 252				7.557	(2+:6+)	252		
48TI 253				7.572	(4+:8+)	253		
48TI 254				7.574	(2+,3,4,5-)	254		
48TI 255				7.586	1(-)	255		
48TI 256				7.588	(5,6,7,8+)	256		
48TI 257				7.616	(1-,2)	257		
48TI 258				7.624	(6+,7-)	258		
48TI 259				7.657	(6+:10+)	259		
48TI 260				7.669	10,8	260		
48TI 261				7.683	(2+,3-)	261		
48TI 262				7.692		262		
48TI 263				7.710	(3-:7-)	263		
48TI 264				7.728	(3-)	264		
48TI 265				7.765	1+,2+,3+,4+	265		

48TI 266						7.845		1+,3+		266
48TI 267		7.876		3+						267
48TI 268		7.905		1+						268
48TI 269						7.969		1		269
48TI 270		7.986		2+						270

48TI 271				7.999		3-				271
48TI 272						8.010		1		272
48TI 273						8.052		1+,3+		273
48TI 274						8.090				274
48TI 275						8.092		12,10,8,6		275 0.21 PS 7
48TI 276		8.199		1+						276
48TI 277				8.212		3-				277
48TI 278						8.246		(2+)		278
48TI 279						8.255		1		279
48TI 280						8.324		10,8,6		280

48TI 281						8.572		1(-)		281
48TI 282						8.592		1		282
48TI 283						8.672		1		283
48TI 284						8.933		1		284
48TI 285						8.996		1(+)		285
48TI 286						9.025		1		286
48TI 287						9.260				287
S-alpha=		9.449		(0.000)		-----				
48TI 288						9.910				288
48TI 289				9.977		1-				289

S-p = 11.445 (0.002)-----
S-n = 11.627 (0.000)-----
S-2p = 19.931 (0.002)-----
S-2n = 20.507 (0.000)-----
S-alpha= 9.449 (0.000)-----

S+p = -6.758 (0.001)
S+n = -8.142 (0.000)
S+2p = -16.346 (0.000)
S+2n = -19.082 (0.000)
S+alpha = -9.351 (0.000)

gap p = 4.687 (0.002)
gap n = 3.484 (0.000)
gap 2p = 3.585 (0.002)
gap 2n = 1.426 (0.000)
gap alpha = 0.098 (0.000)