

$^{49}\text{Ti}$        $Z = 22$        $N = 27$       adopted link      ENSDF link

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

BE = 426.847 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
49TI 1			0.000	7/2-	1 STABLE
49TI 2			1.382	3/2-	2 3.4 PS 4
49TI 3			1.542	11/2-	3 1.00 PS 10
49TI 4			1.586	5/2 3/2-	4
49TI 5				1.610 (9/2-)	5
49TI 6				1.623 (5/2)-	6 37 FS 4
49TI 7			1.723	5/2 1/2-	7
49TI 8			1.762	5/2-	8 21.0 FS 19
49TI 9				2.261 (5/2)-	9 59 FS 17
49TI 10				2.471 (5/2)-	10 52 FS 17
49TI 11	2.504 (5/ 1/2+				11
49TI 12			2.506	15/2-	12
49TI 13				2.513 5/2,7/2,9/2	13
49TI 14				2.516 5/2,7/2	14
49TI 15				2.664 (5/ (3/2)+	15
49TI 16				2.721 (11/2+,13/2,15/2	16-)57 FS 27
49TI 17				2.721	17
49TI 18				2.980 (7/2-,9/2-)	18 0.13 PS 8
49TI 19				3.039 (LE 5/2-)	19
49TI 20				3.043 7/2-,9/2,11/2-	20 24 FS 15
49TI 21			3.175	(5/ 1/2-	21 54.8 FS 18
49TI 22			3.261	5/2 3/2-	22 11.2 FS 5
49TI 23				3.290 (17/2)-	23 0.07 PS LT
49TI 24			3.428	3/2-	24
49TI 25				3.451 (7/2-,9/2-)	25
49TI 26			3.469	1/2-	26
49TI 27			3.511	5/2-	27
49TI 28				3.606 (5/2)+	28
49TI 29			3.618	5/2-	29
49TI 30				3.639	30
49TI 31				3.701 (5/2,7/2,9/2)	31
49TI 32				3.746 5/2-,7/2-	32
49TI 33				3.747 +	33
49TI 34				3.785 5/2-,7/2-	34
49TI 35			3.788	3/2-	35 16 FS LT
49TI 36				3.818	36
49TI 37			3.855	5/2-	37
49TI 38				3.916	38

49TI 39						3.941	(5/2,7/2,9/2)	39		
49TI 40						3.967	-	40		
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49TI 41						3.990		41		
49TI 42						4.074	5/2-,7/2-	42		
49TI 43						4.142	(5/2-)	43		
49TI 44						4.195	5/2-,7/2-	44		
49TI 45				4.222		1/2-		45	22 FS	LT
49TI 46				4.242		7/2-		46		
49TI 47						4.300	-	47		
49TI 48						4.340	-	48		
49TI 49						4.382	(19/2)-	49	0.12 PS	LT
49TI 50				4.433		3/2-		50		
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49TI 51		4.456		1/2+				51		
49TI 52						4.489	-	52		
49TI 53		4.507		5/2+				53		
49TI 54		4.561		1/2+				54		
49TI 55						4.584	+	55		
49TI 56				4.588		3/2-		56		
49TI 57						4.621		57		
49TI 58				4.667		1/2-		58		
49TI 59						4.725		59		
49TI 60						4.770	3/2+,5/2+	60		
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49TI 61						4.811		61		
49TI 62						4.836		62		
49TI 63						4.897	3/2+,5/2+	63		
49TI 64				4.911		1/2-		64		
49TI 65						5.063	(5/2-)	65		
49TI 66				5.116		1/2-		66	10 FS	LT
49TI 67						5.121	11/2+,13/2+	67		
49TI 68						5.151	(3/2)	68		
49TI 69						5.173	5/2-,7/2-	69		
49TI 70						5.200	+	70		
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49TI 71						5.232	3/2-,1/2-	71		
49TI 72		5.254		1/2+				72		
49TI 73						5.326	5/2+,3/2+	73		
49TI 74						5.347	(5/2-)	74		
49TI 75						5.375		75		
49TI 76		5.412		1/2+				76	19 FS	+12-10
49TI 77						5.437	3/2-,1/2-	77		
49TI 78						5.579		78		
49TI 79						5.606		79		
49TI 80						5.655	(3/2,1/2)-	80		
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49TI 81						5.693	5/2+,3/2+	81		
49TI 82						5.738	3/2-,1/2-	82		
49TI 83		5.774		1/2+				83		

49TI 84						5.796	(3/2-, 1/2-)	84
49TI 85				5.861		5/2-		85
49TI 86						5.910	-	86
49TI 87		5.931		1/2+				87
49TI 88						5.965	(5/2)-	88
49TI 89				6.010		5/2-		89
49TI 90						6.012	3/2+, 5/2+	90
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49TI 91		6.078		1/2+				91
49TI 92						6.091		92
49TI 93						6.125		93
49TI 94						6.145		94
49TI 95						6.168		95
49TI 96						6.231		96
49TI 97						6.269		97
49TI 98						6.279	(5/2-)	98
49TI 99						6.513		99
49TI 100						7.329	3/2+, 5/2+	100
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49TI 101						7.626	3/2+, 5/2+	101
49TI 102		8.133		1/2+				102
S-n =		8.142		( 0.000)				
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49TI 103						8.154	1/2-, 3/2-	103
49TI 104						8.156	1/2-, 3/2-	104
49TI 105		8.160		1/2+				105
49TI 106						8.164	1/2-, 3/2-	106
49TI 107		8.178		1/2+				107
49TI 108		8.193		1/2+				108
49TI 109						8.724	5/2-, 7/2-	109
49TI 110		8.882		7/2+				110 2.29 EV 43
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49TI 111						8.890	3/2+, 5/2+	111
49TI 112						9.720		112

S-p = 11.349 ( 0.005)-----  
S-n = 8.142 ( 0.000)-----  
S-2p = 20.797 ( 0.002)-----  
S-2n = 19.769 ( 0.000)-----  
S-alpha= 10.177 ( 0.000)-----

S+p = -7.948 ( 0.000)  
S+n = -10.939 ( 0.000)  
S+2p = -17.465 ( 0.000)  
S+2n = -17.312 ( 0.000)  
S+alpha = -9.149 ( 0.000)

gap p = 3.401 ( 0.005)  
gap n = -2.797 ( 0.000)  
gap 2p = 3.333 ( 0.002)

gap 2n = 2.457 ( 0.001)  
gap alpha = 1.028 ( 0.000)