

$^{51}\text{Ti}$        $Z = 22$        $N = 29$       adopted link      ENSDF link

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

BE = 444.159 ( 0.000) MeV

Qbeta- = 2.470 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
51TI 1			0.000	3/2-	1 5.76 M 1
51TI 2			1.167	1/2-	2 34 FS 4
51TI 3			1.437	7/2-	3 0.42 PS +37-15
51TI 4			1.567	5/2-	4 86 FS +26-21
51TI 5			2.144	5/2-	5 0.11 PS 2
51TI 6			2.198	3/2-	6 10 FS 3
51TI 7				2.345 (11/2)-	7 9.6 PS 16
51TI 8			2.691	7/2-	8
51TI 9				2.731 (7/2,9/2)-	9
51TI 10				2.754 (15/2)-	10 0.8 NS 3
51TI 11			2.906	1/2-	11 7.6 FS 2
51TI 12				2.919 (5/2,7/2)-	12 14 FS LT
51TI 13				3.062 (7/2,9/2)-	13
51TI 14			3.174	3/2-	14 11.8 FS 21
51TI 15				3.237 (5/2,7/2,9/2)	15
51TI 16				3.618 (5/2 TO 9/2)-	16
51TI 17				3.644 (13/2)-	17
51TI 18	3.771	9/2+			18 116 FS +21-17
51TI 19				4.022 (5/2-,7/2-)	19
51TI 20				4.095 (7/2,9/2)	20
51TI 21				4.172 (3/2+,5/2+)	21
51TI 22				4.187 (5/2,7/2,9/2)	22
51TI 23				4.407 (15/2-)	23
51TI 24				4.470	24
51TI 25				4.569 1/2-,3/2-	25
51TI 26				4.602 (3/2+,5/2+)	26
51TI 27				4.757	27
51TI 28	4.820	1/2+			28
51TI 29	4.882	1/2+			29
51TI 30				4.882 (5/2,7/2,9/2)-	30
51TI 31				4.998	31
51TI 32				5.013	32
51TI 33				5.102	33
51TI 34				5.149 5/2-,7/2-	34
51TI 35				5.224	35
51TI 36				5.245 (17/2-)	36
51TI 37				5.420	37

51TI	38				5.540	38
51TI	39				5.780	39
51TI	40				5.950	40
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51TI	41				6.140	41
51TI	42				6.250	42

  

S-p	=	12.485	(	0.003)	-----
S-n	=	6.372	(	0.000)	-----
S-2p	=	23.011	(	0.001)	-----
S-2n	=	17.312	(	0.000)	-----
S-alpha	=	9.813	(	0.002)	-----

  

S+p	=	-8.999	(	0.001)
S+n	=	-7.816	(	0.003)
S+2p	=	-20.133	(	0.000)
S+2n	=	-13.291	(	0.003)
S+alpha	=	-7.802	(	0.001)

  

gap p	=	3.486	(	0.003)
gap n	=	-1.444	(	0.003)
gap 2p	=	2.878	(	0.001)
gap 2n	=	4.021	(	0.003)
gap alpha	=	2.011	(	0.002)