

^{45}Ti $Z = 22$ $N = 23$ adopted link ENSDF link

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

BE = 385.008 (0.001) MeV

Qbeta+ = 2.062 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
45TI 1			0.000	7/2-	1 184.8 M 5
45TI 2			0.037	3/2-	2 3.0 US 2
45TI 3			0.039	5/2-	3 11.29 NS 9
45TI 4	0.329	3/2+			4 1.099 NS 13
45TI 5	0.744	5/2+			5 10.5 PS 17
45TI 6	1.227	7/2+			6 2.8 PS 6
45TI 7			1.353	9/2-	7 0.103 PS 9
45TI 8			1.468	11/2-	8 0.48 PS 7
45TI 9			1.522	3/2- T0 9/2-	9 48 FS 11
45TI 10	1.565	1/2+			10 2.8 PS GT
45TI 11				1.799 (1/2- T0 7/2-)	11 0.32 PS +22-8
45TI 12	1.882	9/2+			12 0.68 PS +6-5
45TI 13	1.958	3/2+			13 0.83 PS 14
45TI 14			2.015	3/2- T0 9/2-	14 32 FS 9
45TI 15	2.258	5/2+			15 0.194 PS 35
45TI 16				2.432 3/2 T0 11/2	16
45TI 17	2.475	11/2+			17 0.39 PS 6
45TI 18				2.500 5/2-,7/2-	18
45TI 19				2.531 1/2,3/2,5/2(+)	19
45TI 20			2.657	13/2-	20 0.17 PS LT
45TI 21				2.849 1/2,3/2,5/2(+)	21
45TI 22				2.890 (3/2+,5/2+)	22
45TI 23	2.912	7/2+			23 0.36 PS 8
45TI 24				2.933 (13/2+)	24
45TI 25				3.000 (3/2+,5/2+)	25
45TI 26			3.015	15/2-	26 0.55 PS 14
45TI 27				3.080 (3/2+,5/2+)	27
45TI 28				3.156	28
45TI 29				3.200	29
45TI 30				3.400 (3/2+,5/2+)	30
45TI 31	3.447	13/2+			31 0.180 PS 21
45TI 32				3.540 3/2+,5/2+	32
45TI 33			3.602	17/2-	33 0.90 PS 7
45TI 34	3.830	1/2+			34
45TI 35	3.922	15/2+			35 0.312 PS 21
45TI 36				3.938 (11/2 T0 15/2)	36
45TI 37			4.345	19/2-	37 0.104 PS 14

45TI 38				4.723	(7/2)-	38			
45TI 39				4.810	3/2 3/2+,5/2+	39			
45TI 40				4.855	(17/2+)	40	0.35	PS	5

45TI 41				5.030	(3/2+,5/2+)	41			
45TI 42				5.180	1/2-,3/2-	42			
45TI 43				5.240	(17/2+)	43	0.07	PS	6
45TI 44				5.330	3/2+,5/2+	44			
45TI 45				5.540		45			
45TI 46		5.641	19/2+			46	0.19	PS	6
45TI 47		5.760	3/2 1/2+			47			
45TI 48					6.007	48			
45TI 49			6.163	23/2-		49	0.35	PS	4
S-alpha=	6.297	(0.001)	-----						
45TI 50				6.460	(21/2+)	50			

45TI 51				6.758	(21/2+)	51			
45TI 52		7.143	27/2-			52	10.4	PS	14
45TI 53				7.342	(23/2+)	53			
45TI 54				7.831		54			
45TI 55				8.289	(25/2+)	55			
S-p	=	8.483	(0.002)	-----					
S-n	=	9.533	(0.001)	-----					
45TI 56				9.644		56	0.07	PS	LT

S-p	=	8.483	(0.002)	-----					
S-n	=	9.533	(0.001)	-----					
S-2p	=	15.179	(0.001)	-----					
S-2n	=	25.837	(0.006)	-----					
S-alpha=	6.297	(0.001)	-----						

S+p	=	-5.355	(0.001)						
S+n	=	-13.189	(0.001)						
S+2p	=	-10.131	(0.005)						
S+2n	=	-22.070	(0.001)						
S+alpha	=	-8.747	(0.002)						

gap p	=	3.129	(0.002)						
gap n	=	-3.656	(0.001)						
gap 2p	=	5.049	(0.005)						
gap 2n	=	3.767	(0.006)						
gap alpha	=	-2.450	(0.003)						