

$^{45}\text{Ti}$        $Z = 22$        $N = 23$       [link to full NNDC output](#)

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

BE = 385.007 ( 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
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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		
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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
45TI 57						10.153	(25/2-)	57	0.07 PS	LT
45TI 58						10.795	(29/2+)	58		
45TI 59						12.499	(29/2-)	59	0.07 PS	LT
45TI 60						13.030	(33/2+)	60		
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S-p	=	8.483		( 0.002)	-----					
S-n	=	9.533		( 0.001)	-----					
S-2p	=	15.179		( 0.001)	-----					
S-2n	=	25.831		( 0.007)	-----					
S-alpha=		6.297		( 0.001)	-----					
S+p	=	-5.354		( 0.001)						
S+n	=	-13.189		( 0.001)						
S+2p	=	-10.131		( 0.006)						
S+2n	=	-22.070		( 0.001)						
S+alpha	=	-8.748		( 0.002)						
gap p	=	3.128		( 0.002)						
gap n	=	-3.657		( 0.001)						
gap 2p	=	5.048		( 0.006)						
gap 2n	=	3.761		( 0.007)						
gap alpha	=	-2.451		( 0.003)						