

^{42}Ti $Z = 22$ $N = 20$ adopted link ENSDF link

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

BE = 346.888 (0.000) MeV

Qbeta+ = 7.017 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2

42TI 1	0.000	0+			1 208.65 MS 80
42TI 2	1.555	2+			2 0.44 PS 11
42TI 3	1.854	0+			3 0.14 PS GT
42TI 4				2.396 (2+)	4 0.22 PS 13
42TI 5	2.677	4+			5 1.4 PS GT
42TI 6				2.730	6
42TI 7				2.945	7
42TI 8	3.043	6+			8 3.12 NS 21
42TI 9				3.130	9
42TI 10				3.280	10

42TI 11				3.335	11
42TI 12			3.440 1-		12
42TI 13				3.540	13
42TI 14				3.660	14
42TI 15	3.744	2+			15 0.17 PS LT
S-p =	3.751 (0.000)				

42TI 16				3.850	16
42TI 17				3.990	17
42TI 18				4.130	18
42TI 19	4.245	0+			19
42TI 20			4.375 3-		20

42TI 21				4.400	21
42TI 22	4.440	2+			22
42TI 23	4.665	2+			23
42TI 24				4.730	24
S-2p =	4.836 (0.000)				

42TI 25				4.890	25
42TI 26	4.950	4+			26
42TI 27				5.160	27
42TI 28	5.220	4+			28
S-alpha=	5.471 (0.000)				

42TI 29	5.555	0+			29
42TI 30				6.370 (0+)	30

42TI 31				6.445	31
42TI 32				7.500	32
42TI 33				0.000	33

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S-p    =  3.751 ( 0.000)-----  
S-n    = 17.478 ( 0.028)-----  
S-2p   =  4.836 ( 0.000)-----  
S-2n   = 32.254 ( 0.068)-----  
S-alpha=  5.471 ( 0.000)-----  
  
S+p    =  -0.101 ( 0.043)  
S+n    = -12.283 ( 0.006)  
S+2p   =  -2.895 ( 0.051)  
S+2n   = -28.587 ( 0.001)  
S+alpha =  -6.792 ( 0.011)  
  
gap p   =  3.650 ( 0.043)  
gap n   =  5.196 ( 0.029)  
gap 2p  =  1.940 ( 0.051)  
gap 2n  =  3.667 ( 0.068)  
gap alpha = -1.321 ( 0.011)
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