

$^{52}\text{Ti}$        $Z = 22$        $N = 30$       adopted link      ENSDF link

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

BE = 451.975 ( 0.003) MeV

Qbeta- = 1.965 ( 0.003) MeV

	Energy T	J+	J-	J-other	T1/2
52TI 1	0.000	0+			1 1.7 M 1
52TI 2	1.050	2+			2 3.60 PS 14
52TI 3	2.264	2+			3 39 FS 8
52TI 4	2.318	4+			4 3.3 PS 4
52TI 5	2.432	2+			5 119 FS 8
52TI 6	3.029	6+			6 25 PS 4
52TI 7	3.143	4+			7 96 FS 19
52TI 8	3.351	4+			8
52TI 9			3.454 3-		9 41 FS 6
52TI 10	3.589	2+			10 62 FS LE
52TI 11			3.872 3-		11
52TI 12	3.882	0+			12
52TI 13	3.923	2+			13
52TI 14				4.023 (4+)	14
52TI 15	4.055	5+			15
52TI 16				4.078	16
52TI 17				4.098 0+,1-	17
52TI 18	4.102	6+			18
52TI 19			4.212 1-		19
52TI 20				4.287	20
52TI 21				4.288 (8+)	21
52TI 22				4.324 1-,0+	22
52TI 23				4.479	23
52TI 24	4.535	7+			24 85 FS 15
52TI 25	4.647	4+			25
52TI 26				4.691 1-,0+	26
52TI 27				4.788 (2+)	27
52TI 28			4.831 5-		28
52TI 29	4.840	5+			29 60 FS 18
52TI 30				4.907 (6+)	30 37 FS 13
52TI 31				5.010	31
52TI 32			5.103 5-		32
52TI 33	5.142	6+			33
52TI 34	5.236	5+			34
52TI 35				5.319	35
52TI 36				5.819 (8+)	36
52TI 37				6.098 6(+)	37 60 FS 18

52TI	38				6.693	(10+)		38
52TI	39		7.520	10+				39 41 FS 18
S-alpha=			7.678	( 0.003)	-----			
S-n	=		7.816	( 0.003)	-----			
52TI	40				8.858			40
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52TI	41				9.089			41

  

S-p	=	13.516	( 0.004)	-----				
S-n	=	7.816	( 0.003)	-----				
S-2p	=	24.466	( 0.003)	-----				
S-2n	=	14.188	( 0.003)	-----				
S-alpha=		7.678	( 0.003)	-----				

  

S+p	=	-9.663	( 0.004)
S+n	=	-5.475	( 0.004)
S+2p	=	-22.036	( 0.003)
S+2n	=	-12.409	( 0.016)
S+alpha	=	-8.232	( 0.003)

  

gap p	=	3.853	( 0.006)
gap n	=	2.341	( 0.005)
gap 2p	=	2.431	( 0.004)
gap 2n	=	1.780	( 0.016)
gap alpha	=	-0.555	( 0.004)