

^{111}Te $Z = 52$ $N = 59$ adopted link ENSDF link

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

BE = 928.822 (0.006) MeV

Qbeta+ = 7.249 (0.011) MeV

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

S-alpha=	-2.500	(0.008)	-----		
111TE 1				0.000 (5/2)+	1 19.3 S 4
111TE 2				0.117 (7/2)	2+
111TE 3				0.538 (7/2+	3)
111TE 4				0.768 (9/2	4)+
111TE 5				0.824 (9/2+)	5
111TE 6		0.839	11/2-		6 32.2 NS 14
111TE 7				0.882 (11/2)+	7
111TE 8		1.378	15/2-		8
111TE 9				1.520 (13/2)+	9
111TE 10				1.757 (15/2+)	10

111TE 11		2.062	19/2-		11
111TE 12				2.293 (17/2)+	12
111TE 13				2.496 (17/2-)	13
111TE 14				2.635 (19/2)+	14
111TE 15				2.674 (19/2-)	15
111TE 16		2.777	23/2-		16
111TE 17				3.050 (21/2-)	17
111TE 18				3.383 (23/2-)	18

S-p	=	3.427	(0.009)	-----	
111TE 19				3.739 (23/2+)	19
111TE 20				3.756 (25/2-)	20

111TE 21		3.768	27/2-		21
111TE 22				3.823	22
111TE 23				3.881	23
111TE 24				4.127 (27/2-)	24
111TE 25				4.315 (27/2+)	25
111TE 26				4.431 (29/2)	26
111TE 27				4.556 (29/2-)	27
111TE 28				4.707	28
111TE 29		4.731	31/2-		29
111TE 30				4.887 (31/2-)	30

111TE 31				5.008 (31/2+)	31
111TE 32				5.346 (33/2-)	32
111TE 33				5.353 (33/2)	33
111TE 34				5.486	34

S-2p	=	5.535	(0.010)	-----	

111TE	35		5.707	35/2-		35
111TE	36				5.796 (35/2+)	36
111TE	37				6.071 (37/2)	37
111TE	38				6.357	38
111TE	39				6.653 (39/2+)	39
111TE	40				6.819 (39/2-)	40

111TE	41				6.990 (41/2)	41
111TE	42				7.491	42
111TE	43				7.677 (43/2+)	43
111TE	44				7.752	44
111TE	45				7.874	45
111TE	46				8.652	46
111TE	47				8.727 (47/2+)	47
S-n	=	9.429 (0.009)	-----			
111TE	48				9.863 (51/2+)	48
111TE	49				9.958	49
111TE	50				0.000	50

S-p = 3.427 (0.009)-----
 S-n = 9.429 (0.009)-----
 S-2p = 5.535 (0.010)-----
 S-2n = 22.015 (0.008)-----
 S-alpha = -2.500 (0.008)-----

S+p = -0.765 (0.012)
 S+n = -12.051 (0.011)
 S+2p = -3.194 (0.009)
 S+2n = -20.902 (0.029)
 S+alpha = 2.506 (0.014)

gap p = 2.662 (0.015)
 gap n = -2.622 (0.014)
 gap 2p = 2.341 (0.014)
 gap 2n = 1.113 (0.030)
 gap alpha = 0.006 (0.016)