

^{133}Te $Z = 52$ $N = 81$ adopted link ENSDF link

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

BE = 1115.740 (0.002) MeV

Qbeta- = 2.920 (0.006) MeV

	Energy T	J+	J-	J-other	T1/2
133TE 1				0.000 (3/2+)	1 12.5 M 3
133TE 2				0.308 (1/2+)	2
133TE 3				0.334 (11/2-)	3 55.4 M 4
133TE 4				1.096 (7/2+,5/2-)	4
133TE 5				1.265 (5/2,7/2+)	5
133TE 6				1.421 (5/2+)	6
133TE 7				1.485 (15/2-)	7
133TE 8				1.501 (5/2-,7/2,9/2-)	8
133TE 9				1.552	9
133TE 10				1.610 (19/2-)	10 100 NS 5
133TE 11				1.640 (7/2-,9/2)	11
133TE 12				1.642	12
133TE 13				1.706	13
133TE 14				1.729 (5/2,7/2+)	14
133TE 15				1.804 (17/2-)	15
133TE 16				1.913 (7/2-,9/2-)	16
133TE 17				1.976	17
133TE 18				2.024 (5/2-,7/2,9/2-)	18
133TE 19				2.211 (7/2-,9/2-)	19
133TE 20				2.332 (21/2-)	20
133TE 21				2.332 (5/2-,7/2)	21
133TE 22				2.750 (7/2-,9/2-)	22
133TE 23				2.756 (5/2+)	23
133TE 24				3.070 (23/2-)	24
133TE 25				3.523 (23/2-)	25
133TE 26				3.825	26
133TE 27				3.833	27
133TE 28				3.934 (21/2+)	28
133TE 29				4.003 (25/2+)	29
133TE 30				4.033 (23/2+)	30
133TE 31				4.313 (27/2+)	31
S-alpha=	4.771 (0.017)				
133TE 32				5.215 (23/2-)	32
133TE 33				5.502 (25/2-)	33
133TE 34				5.601	34
133TE 35				5.688 (27/2-)	35
S-n =	5.820 (0.004)				

133TE	36				5.942	(29/2-)	36		
133TE	37				6.163	(31/2-)	37		
133TE	38				0.000	(3/2+)	38	12.5 M	3

S-p = 10.591 (0.003)-----
 S-n = 5.820 (0.004)-----
 S-2p = 20.250 (0.004)-----
 S-2n = 13.869 (0.002)-----
 S-alpha= 4.771 (0.017)-----

S+p = -8.395 (0.005)
 S+n = -7.668 (0.003)
 S+2p = -18.054 (0.004)
 S+2n = -10.934 (0.003)
 S+alpha = -1.871 (0.002)

gap p = 2.196 (0.006)
 gap n = -1.848 (0.005)
 gap 2p = 2.196 (0.006)
 gap 2n = 2.934 (0.003)
 gap alpha = 2.900 (0.018)