

^{171}Tm $Z = 69$ $N = 102$ adopted link ENSDF link

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

BE = 1385.424 (0.001) MeV

Qbeta- = 0.097 (0.001) MeV

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

S-alpha=	-0.644	(0.005)	-----		
171TM 1	0.000	1/2+			1 1.92 Y 1
171TM 2	0.005	3/2+			2 4.77 NS 8
171TM 3	0.117	5/2+			3 55 PS 13
171TM 4	0.129	7/2+			4 415 PS 20
171TM 5	0.327	9/2+			5
171TM 6	0.348	11/2+			6
171TM 7			0.425	7/2-	7 2.60 US 2
171TM 8				0.520 (9/2-)	8
171TM 9				0.627 (13/2+)	9
171TM 10	0.636	7/2+			10 1.26 NS 6

171TM 11				0.637 (11/2-)	11
171TM 12				0.659 (15/2+)	12
171TM 13	0.676	3/2+			13
171TM 14				0.738 (5/2+)	14
171TM 15				0.750 (5/2-)	15
171TM 16	0.753	9/2+			16
171TM 17				0.755 (1/2-)	17
171TM 18				0.776 (13/2-)	18
171TM 19				0.822 (7/2+)	19
171TM 20				0.824 (9/2-)	20

171TM 21				0.884 (3/2-)	21
171TM 22	0.894	11/2+			22
171TM 23	0.913	5/2+			23
171TM 24				0.936 (15/2-)	24
171TM 25				0.984 (13/2-)	25
171TM 26				0.999 (7/2+)	26
171TM 27				1.013 (17/2+)	27
171TM 28				1.036 (7/2-)	28
171TM 29				1.057 (19/2+)	29
171TM 30	1.059	13/2+			30

171TM 31				1.117 (17/2-)	31
171TM 32				1.226 (3/2+,5/2,7/2+)	32
171TM 33				1.232 (17/2-)	33
171TM 34				1.235	34
171TM 35	1.246	15/2+			35
171TM 36				1.285 (5/2+)	36

171TM	37				1.296		37
171TM	38				1.307	(11/2)-	38
171TM	39				1.317	(19/2-)	39
171TM	40				1.391	3/2(-),5/2,7/2	40

171TM	41				1.401	(5/2+)	41
171TM	42		1.455	17/2+			42
171TM	43		1.568	1/2+			43
171TM	44		1.674	19/2+			44
171TM	45				1.685	(19/2+)	45
171TM	46				1.785		46
171TM	47				1.813		47
171TM	48		1.824	1/2+			48
171TM	49				1.839	(21/2+)	49
171TM	50				1.849		50

171TM	51				1.860		51
171TM	52				1.909		52
171TM	53				1.926		53
171TM	54				1.959		54
171TM	55				1.979		55
171TM	56				2.015		56
171TM	57				2.020	(23/2+)	57
171TM	58		2.220	25/2+			58
171TM	59		2.436	27/2+			59
171TM	60		2.670	29/2+			60

171TM	61		2.922	31/2+			61
171TM	62		3.188	33/2+			62
171TM	63		3.467	35/2+			63

S-p = 6.392 (0.002)-----
S-n = 7.486 (0.001)-----
S-2p = 14.992 (0.020)-----
S-2n = 14.078 (0.001)-----
S-alpha= -0.644 (0.005)-----

S+p = -7.334 (0.001)
S+n = -6.234 (0.006)
S+2p = -12.249 (0.002)
S+2n = -13.188 (0.005)
S+alpha = 1.620 (0.002)

gap p = -0.943 (0.002)
gap n = 1.252 (0.006)
gap 2p = 2.744 (0.020)
gap 2n = 0.890 (0.005)
gap alpha = 0.975 (0.006)