

^{167}Tm $Z = 69$ $N = 98$ adopted link ENSDF link

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

BE = 1356.471 (0.001) MeV

Qbeta+ = 0.746 (0.001) MeV

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

S-alpha=	-1.410	(0.001)	-----		
167TM 1	0.000	1/2+			1 9.25 D 2
167TM 2	0.010	3/2+			2 0.95 NS 5
167TM 3	0.117	5/2+			3 66 PS 7
167TM 4	0.142	7/2+			4 343 PS 15
167TM 5				0.172 (1/2)-	5
167TM 6				0.179 (7/2)+	6 1.16 US 6
167TM 7			0.188 5/2-		7
167TM 8				0.282 (3/2)	8
167TM 9				0.286 (9/2)-	9
167TM 10				0.291 (3/2-)	10

167TM 11			0.293 7/2-		11 0.9 US 1
167TM 12				0.296 (9/2)+	12
167TM 13	0.326	9/2+			13
167TM 14				0.371 (11/2+)	14
167TM 15				0.384 (9/2-)	15
167TM 16				0.436 (11/2)+	16
167TM 17			0.460 7/2-		17
167TM 18				0.470 (13/2-)	18
167TM 19	0.471	3/2+			19
167TM 20			0.497 11/2-		20

167TM 21	0.522	5/2+			21
167TM 22	0.558	5/2+			22
167TM 23				0.597 (13/2)+	23
167TM 24				0.602 (7/2)+	24
167TM 25				0.622 (13/2+)	25
167TM 26				0.632 (13/2-)	26
167TM 27				0.657 (7/2+)	27
167TM 28				0.663	28
167TM 29				0.682	29
167TM 30				0.689 (15/2+)	30

167TM 31				0.699 (11/2-)	31
167TM 32				0.706	32
167TM 33				0.709 (9/2+)	33
167TM 34				0.717	34
167TM 35				0.741 (17/2-)	35
167TM 36				0.771	36

167TM	37				0.779	(15/2+)	37
167TM	38				0.780	(9/2+)	38
167TM	39				0.788	(15/2-)	39
167TM	40				0.840	(11/2+)	40

167TM	41				0.853	(3/2-)	41
167TM	42				0.868	(5/2+, 7/2)	42
167TM	43				0.882	(5/2-)	43
167TM	44				0.928	(11/2+)	44
167TM	45				0.930	(9/2-)	45
167TM	46				0.935	(7/2-)	46
167TM	47				0.945	(11/2+)	47
167TM	48				0.966	(17/2-)	48
167TM	49				0.978	(17/2+)	49
167TM	50				0.994	(17/2+)	50

167TM	51				1.001	(13/2+)	51
167TM	52				1.008	(15/2-)	52
167TM	53				1.008	(9/2-)	53
167TM	54		1.044	11/2-			54
167TM	55				1.087	(19/2+)	55
167TM	56				1.092		56
167TM	57				1.096	(21/2-)	57
167TM	58				1.096	(13/2+)	58
167TM	59				1.101	(13/2+)	59
167TM	60				1.105	(11/2-)	60

167TM	61		1.125	1/2+			61
167TM	62				1.154		62
167TM	63				1.161	(19/2-)	63
167TM	64				1.164	(15/2+)	64
167TM	65				1.168		65
167TM	66				1.192		66
167TM	67				1.195	(19/2+)	67
167TM	68				1.210		68
167TM	69				1.217	(7/2)+	69
167TM	70				1.223	(13/2-)	70

167TM	71				1.230	(7/2-)	71
167TM	72				1.235		72
167TM	73				1.277	(15/2+)	73
167TM	74				1.281	(15/2+)	74
167TM	75				1.283		75
167TM	76				1.320		76
167TM	77				1.359	(15/2-)	77
167TM	78				1.373	(17/2+)	78
167TM	79				1.374		79
167TM	80				1.378	(21/2-)	80

167TM	81				1.380		81

167TM 82						1.381	(19/2-)	82
167TM 83		1.403	1/2+					83
167TM 84						1.425	(21/2+)	84
167TM 85						1.429	(21/2+)	85
167TM 86						1.432	(5/2-,7/2)	86
167TM 87						1.457		87
167TM 88						1.470	(17/2+)	88
167TM 89						1.486		89
167TM 90						1.487	(17/2+)	90

167TM 91						1.525	(17/2-)	91
167TM 92						1.527	(5/2-)	92
167TM 93						1.529	(25/2-)	93
167TM 94						1.549		94
167TM 95						1.550	(23/2+)	95
167TM 96						1.563	(19/2+)	96
167TM 97						1.574		97
167TM 98						1.581	5/2+,7/2+	98
167TM 99						1.598	(5/2-,7/2+)	99
167TM 100						1.607	(23/2-)	100

167TM 101						1.625		101
167TM 102						1.630	5/2,7/2+	102
167TM 103						1.644		103
167TM 104						1.654	5/2,7/2+	104
167TM 105						1.669	(23/2+)	105
167TM 106						1.672		106
167TM 107						1.679	(19/2+)	107
167TM 108						1.691	(19/2-)	108
167TM 109						1.701		109
167TM 110						1.705	(19/2+)	110

167TM 111						1.718		111
167TM 112						1.809	(23/2-)	112
167TM 113						1.814	(21/2+)	113
167TM 114						1.859	(25/2-)	114
167TM 115						1.901	(21/2+)	115
167TM 116						1.915	(25/2+)	116
167TM 117						1.917	(21/2-)	117
167TM 118						1.922	(25/2+)	118
167TM 119						2.022	(23/2+)	119
167TM 120						2.031	(29/2-)	120

167TM 121						2.066	(27/2+)	121
167TM 122						2.098	(23/2-)	122
167TM 123						2.114	(27/2-)	123
167TM 124						2.136	(23/2+)	124
167TM 125						2.186	(27/2+)	125
167TM 126						2.280	(27/2-)	126
167TM 127						2.321	(25/2+)	127

167TM 128				2.382	(25/2+)	128
167TM 129				2.394	(29/2-)	129
167TM 130				2.396	(25/2-)	130

167TM 131				2.440	(29/2+)	131
167TM 132				2.456	(29/2+)	132
167TM 133				2.573	(27/2-)	133
167TM 134				2.593	(33/2-)	134
167TM 135				2.620	(31/2+)	135
167TM 136				2.670	(31/2-)	136
167TM 137				2.736	(31/2+)	137
167TM 138				2.799	(31/2-)	138

S-p = 4.908 (0.001)-----
 S-n = 8.728 (0.012)-----
 S-2p = 12.223 (0.001)-----
 S-2n = 15.756 (0.002)-----
 S-alpha= -1.410 (0.001)-----

S+p = -6.326 (0.001)
 S+n = -6.841 (0.002)
 S+2p = -10.117 (0.003)
 S+2n = -14.874 (0.001)
 S+alpha = 2.290 (0.002)

gap p = -1.418 (0.002)
 gap n = 1.887 (0.012)
 gap 2p = 2.105 (0.004)
 gap 2n = 0.881 (0.003)
 gap alpha = 0.880 (0.003)