

^{151}Tb $Z = 65$ $N = 86$ adopted link ENSDF link

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

BE = 1239.540 (0.004) MeV

Qbeta+ = 2.565 (0.005) MeV

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

S-alpha=	-3.496	(0.005)	-----		
151TB 1				0.000 1/2(+)	1 17.609 H 14
151TB 2				0.023 3/2(+)	2 4.05 NS 7
151TB 3				0.072 (5/2+)	3 0.92 NS 3
151TB 4				0.100 (11/2-)	4 25 S 3
151TB 5				0.249 (5/2+,7/2+)	5 0.26 NS LT
151TB 6				0.276	6
151TB 7				0.486 (7/2-)	7
151TB 8				0.549 (3/2+,5/2+,7/2+)	8
151TB 9				0.584 (5/2+)	9
151TB 10				0.646 (9/2-)	10

151TB 11				0.687 (5/2,7/2+)	11
151TB 12				0.704 (15/2-)	12
151TB 13				0.712 (5/2+)	13
151TB 14				0.841 (5/2,7/2+)	14
151TB 15				0.857 (5/2,7/2+)	15
151TB 16				0.887 (5/2,7/2,9/2+)	16
151TB 17				0.888 (13/2-)	17
151TB 18				0.918 (5/2-,7/2-)	18
151TB 19				0.949 (5/2-,7/2+)	19
151TB 20				1.083 (7/2-)	20

151TB 21				1.097 (15/2+)	21
151TB 22				1.119 (7/2-,9/2)	22
151TB 23				1.202 (5/2-,7/2,9/2+)	23
151TB 24				1.241 (7/2-,9/2-)	24
151TB 25				1.319 (5/2,7/2,9/2)	25
151TB 26				1.320 (19/2-)	26
151TB 27				1.434 (7/2-)	27
151TB 28				1.582 (5/2-,7/2,9/2)	28
151TB 29				1.611 (5/2-)	29
151TB 30				1.630 (7/2-,9/2-)	30

151TB 31				1.663 (5/2-,7/2-,9/2-	31)
151TB 32				1.693 (19/2+)	32
151TB 33				1.724 (5/2-)	33
151TB 34				1.742 (5/2-)	34
151TB 35				1.774 (5/2-,7/2-,9/2-	35)
151TB 36				1.842 (5/2-,7/2-)	36

151TB 37				2.002	(23/2-)	37
151TB 38				2.046	(21/2+)	38
151TB 39				2.120	(23/2-)	39
151TB 40				2.181	(25/2-)	40

151TB 41				2.220	(23/2+)	41
151TB 42				2.375	(27/2-)	42
151TB 43				2.469	(25/2+)	43
151TB 44				2.783	(27/2+)	44
151TB 45				2.847	(29/2+)	45
151TB 46				3.108		46
151TB 47				3.116	(31/2+)	47
151TB 48				3.129	(31/2-)	48
S-p =	3.149	(0.007)	-----		
151TB 49				3.159	(29/2-)	49
151TB 50				3.196	(31/2+)	50

151TB 51				3.274	(33/2+)	51
151TB 52				3.288		52
151TB 53				3.808	(35/2-)	53
151TB 54				3.901	(35/2+)	54
151TB 55				4.148	(37/2+)	55
151TB 56				4.565	(39/2+)	56
151TB 57				4.765	(39/2-)	57
151TB 58				4.774	(41/2+)	58
151TB 59				4.840	(39/2-)	59
151TB 60				5.034	(41/2-)	60

151TB 61				5.162	(45/2+)	61
151TB 62				5.364		62
151TB 63				5.467	(43/2-)	63
151TB 64				5.475	(43/2-)	64
151TB 65				5.656		65
151TB 66				5.819	(45/2-)	66
151TB 67				5.925	(45/2-)	67
151TB 68				5.985	(47/2-)	68
151TB 69				6.165	(49/2-)	69
151TB 70				6.170	(49/2-)	70

151TB 71				6.485	(49/2+)	71
151TB 72				6.594	(51/2-)	72
151TB 73				6.674	(49/2-)	73
151TB 74				6.880	(51/2-)	74
151TB 75				7.248	(53/2-)	75
151TB 76				7.265	(53/2+)	76
151TB 77				7.296	(53/2-)	77
151TB 78				7.304	(53/2+)	78
151TB 79				7.619	(55/2+)	79
151TB 80				7.676	(55/2-)	80

151TB 81				7.765	(57/2-)	81
151TB 82				7.882	(57/2-)	82
151TB 83				7.902	(57/2+)	83
151TB 84				8.283	(61/2+)	84
151TB 85				8.336	(59/2-)	85
S-n	=	8.589	(0.008)	-----		
151TB 86				8.802	(61/2-)	86
151TB 87				9.035	(63/2)	87
151TB 88				9.123	(63/2-)	88
151TB 89				9.380	(65/2+)	89
151TB 90				9.406	(65/2)	90

151TB 91				9.446	(63/2)	91
151TB 92				9.490	(65/2+)	92
151TB 93				9.530	(63/2-)	93
151TB 94				9.709	(67/2)	94
151TB 95				9.734	(65/2+)	95
151TB 96				9.750	(67/2-)	96

S-p	=	3.149	(0.007)	-----		
S-n	=	8.589	(0.008)	-----		
S-2p	=	9.760	(0.006)	-----		
S-2n	=	16.278	(0.005)	-----		
S-alpha	=	-3.496	(0.005)	-----		
S+p	=	-5.783	(0.006)			
S+n	=	-7.165	(0.040)			
S+2p	=	-7.966	(0.007)			
S+2n	=	-15.833	(0.006)			
S+alpha	=	3.159	(0.018)			
gap p	=	-2.635	(0.010)			
gap n	=	1.424	(0.041)			
gap 2p	=	1.794	(0.009)			
gap 2n	=	0.445	(0.008)			
gap alpha	=	-0.337	(0.019)			