

$^{155}\text{Tb}$        $Z = 65$        $N = 90$       adopted link      ENSDF link

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

BE = 1271.452 ( 0.010) MeV

Qbeta+ = 0.820 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-0.978 ( 0.010)-----				
155TB 1	0.000	3/2+			1 5.32 D 6
155TB 2	0.065	5/2+			2 0.25 NS 3
155TB 3	0.156	7/2+			3 0.2 NS LE
155TB 4			0.227	5/2-	4 0.35 NS 3
155TB 5			0.250	7/2-	5 0.56 NS 5
155TB 6	0.271	5/2+			6
155TB 7	0.274	9/2+			7
155TB 8			0.317	9/2-	8
155TB 9	0.335	7/2+			9
155TB 10			0.397	11/2-	10
-----					
155TB 11	0.409	11/2+			11
155TB 12	0.452	9/2+			12
155TB 13	0.467	7/2+			13
155TB 14	0.499	5/2+			14
155TB 15				0.508	1/2+, 3/2+, 5/2+
155TB 16				0.518	3/2+, 5/2+, 7/2+
155TB 17			0.545	7/2-	17
155TB 18	0.550	3/2+			18
155TB 19			0.555	13/2-	19
155TB 20	0.576	13/2+			20
-----					
155TB 21	0.596	11/2+			21
155TB 22				0.616	22
155TB 23	0.652	5/2+			23
155TB 24			0.673	15/2-	24
155TB 25				0.727	(1/2+)
155TB 26	0.744	7/2+			26
155TB 27	0.748	15/2+			27
155TB 28	0.761	3/2+			28
155TB 29	0.767	13/2+			29
155TB 30	0.810	5/2+			30
-----					
155TB 31			0.834	11/2-	31
155TB 32				0.862	3/2+, 5/2+
155TB 33				0.863	(1/2-)
155TB 34			0.891	3/2-	34
155TB 35				0.906	(5/2-)
155TB 36			0.917	17/2-	36

155TB 37						0.926		37
155TB 38				0.950		3/2-		38
155TB 39		0.955		15/2+				39
155TB 40		0.959		17/2+				40
-----								
155TB 41						1.041	(9/2)-	41
155TB 42				1.056		19/2-		42
155TB 43				1.062		5/2-		43
155TB 44				1.068		3/2-		44
155TB 45						1.085		45
155TB 46						1.119		46
155TB 47		1.120		7/2+				47
155TB 48						1.131		48
155TB 49				1.155		5/2-		49
155TB 50		1.162		19/2+				50
-----								
155TB 51		1.170		17/2+				51
155TB 52						1.205		52
155TB 53						1.229		53
155TB 54						1.251		54
155TB 55				1.256		7/2-		55
155TB 56				1.295		5/2-		56
155TB 57						1.307		57
155TB 58						1.354		58
155TB 59				1.376		21/2-		59
155TB 60		1.394		19/2+				60
-----								
155TB 61		1.412		21/2+				61
155TB 62						1.452	3/2-, 5/2-	62
155TB 63						1.471	3/2+, 5/2+	63
155TB 64						1.480		64
155TB 65				1.493		5/2-		65
155TB 66				1.528		23/2-		66
155TB 67						1.548		67
155TB 68						1.581		68
155TB 69						1.616		69
155TB 70				1.639		5/2-		70
-----								
155TB 71		1.641		23/2+				71
155TB 72		1.645		21/2+				72
155TB 73				1.656		5/2-		73
155TB 74				1.665		5/2-		74
155TB 75						1.685		75
155TB 76						1.721		76
155TB 77				1.750		5/2-		77
155TB 78		1.794		5/2+				78
155TB 79						1.836	3/2, 5/2	79
155TB 80						1.861	1/2+, 3/2, 5/2	80
-----								
155TB 81				1.866		5/2-		81

155TB 82						1.869	3/2+,5/2+	82	
155TB 83		1.897	23/2+					83	
155TB 84						1.911	(5/2)-	84	
155TB 85				1.911	25/2-			85	
155TB 86				1.914	5/2-			86	
155TB 87		1.924	25/2+					87	
155TB 88						1.955	3/2-,5/2-	88	
155TB 89				1.992	3/2-			89	
155TB 90				2.071	27/2-			90	
-----									
155TB 91		2.176	27/2+					91	
155TB 92		2.177	25/2+					92	
155TB 93		2.453	27/2+					93	
155TB 94		2.486	29/2+					94	
155TB 95				2.499	29/2-			95	
155TB 96				2.662	31/2-			96	
155TB 97						2.745	27/2(+)	97	
155TB 98		2.749	29/2+					98	
155TB 99		2.757	31/2+					99	
155TB 100		3.058	31/2+					100	
-----									
155TB 101				3.069	33/2-			101	
155TB 102		3.085	33/2+					102	
155TB 103						3.105	31/2(+)	103	
155TB 104				3.247	35/2-			104	
155TB 105						3.358	(33/2+)	105	
155TB 106		3.368	35/2+					106	
155TB 107				3.533	37/2-			107	
155TB 108						3.572	35/2(+)	108	
155TB 109		3.681	37/2+					109	
155TB 110				3.777	39/2-			110	
-----									
155TB 111		3.967	39/2+					111	
155TB 112				4.056	41/2-			112	
155TB 113						4.130	(39/2+)	113	
155TB 114		4.260	41/2+					114	
155TB 115				4.350	43/2-			115	
155TB 116		4.573	43/2+					116	
155TB 117				4.669	45/2-			117	
155TB 118						4.762	(43/2+)	118	
S-p	=	4.833	(0.010)	-----					
155TB 119						4.896	(45/2+)	119	
155TB 120						4.995	(47/2-)	120	
-----									
155TB 121						5.239	(47/2+)	121	
155TB 122						5.368	(49/2-)	122	
155TB 123						5.453	(47/2+)	123	
155TB 124						5.598	(49/2+)	124	
155TB 125						5.713	(51/2-)	125	
155TB 126						5.970	(51/2+)	126	

155TB 127			6.147	(53/2-)	127
155TB 128			6.190	(51/2+)	128
155TB 129			6.365	(53/2+)	129
155TB 130			6.498	(55/2-)	130
-----					
155TB 131			6.765	(55/2+)	131
155TB 132			6.970	(55/2+)	132
155TB 133			6.998	(57/2-)	133
155TB 134			7.191	(57/2+)	134
155TB 135			7.341	(59/2-)	135
155TB 136			7.618	(59/2+)	136
155TB 137			7.793	(59/2+)	137
155TB 138			7.914	(61/2-)	138
155TB 139			8.054	(61/2+)	139
155TB 140			8.234	(63/2-)	140
-----					
155TB 141			8.520	(63/2+)	141
155TB 142			8.662	(63/2+)	142
155TB 143			8.887	(65/2-)	143
155TB 144			8.957	(65/2+)	144
S-n	=	9.165 ( 0.046)	-----		
155TB 145			9.167	(67/2-)	145
155TB 146			9.467	(67/2+)	146
155TB 147			9.569	(67/2+)	147
155TB 148			9.910	(69/2-)	148
S-p	=	4.833 ( 0.010)	-----		
S-n	=	9.165 ( 0.046)	-----		
S-2p	=	12.461 ( 0.010)	-----		
S-2n	=	16.079 ( 0.011)	-----		
S-alpha	=	-0.978 ( 0.010)	-----		
S+p	=	-6.568 ( 0.010)			
S+n	=	-6.912 ( 0.011)			
S+2p	=	-10.160 ( 0.025)			
S+2n	=	-15.656 ( 0.010)			
S+alpha	=	1.496 ( 0.010)			
gap p	=	-1.735 ( 0.014)			
gap n	=	2.253 ( 0.048)			
gap 2p	=	2.301 ( 0.027)			
gap 2n	=	0.423 ( 0.014)			
gap alpha	=	0.518 ( 0.014)			