

^{167}Yb $Z = 70$ $N = 97$ adopted link ENSDF link

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

BE = 1353.736 (0.004) MeV

Qbeta+ = 1.953 (0.004) MeV

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

S-alpha=	-2.153 (0.006)-----				
167YB 1			0.000	5/2-	1 17.5 M 2
167YB 2	0.030	5/2+			2 14 NS LT
167YB 3	0.034	7/2+			3 16 NS LT
167YB 4	0.059	9/2+			4
167YB 5			0.079	7/2-	5 0.84 NS 4
167YB 6	0.126	11/2+			6
167YB 7			0.179	9/2-	7 0.23 NS LE
167YB 8				0.180 (3/2-)	8
167YB 9	0.186	13/2+			9
167YB 10			0.189	1/2-	10 23 NS AP

167YB 11				0.213 (5/2)-	11
167YB 12				0.239 (5/2)-	12
167YB 13			0.259	3/2-	13
167YB 14			0.278	5/2-	14
167YB 15			0.301	11/2-	15
167YB 16				0.308 (7/2)-	16
167YB 17				0.318 (7/2)-	17
167YB 18	0.330	15/2+			18
167YB 19	0.408	17/2+			19
167YB 20			0.411	7/2-	20

167YB 21				0.420 (9/2)-	21
167YB 22	0.431	7/2+			22
167YB 23			0.441	7/2-	23
167YB 24				0.442 (13/2-)	24
167YB 25			0.477	9/2-	25
167YB 26				0.545	26
167YB 27			0.553	9/2-	27
167YB 28				0.566	28
167YB 29				0.569 (5/2,7/2)+	29
167YB 30				0.572 (11/2)-	30 180 NS AP

167YB 31				0.601	31
167YB 32				0.607 (15/2-)	32
167YB 33				0.614	33
167YB 34	0.628	7/2+			34
167YB 35				0.644 (19/2+)	35
167YB 36				0.660	36

167YB 37						0.677	(7/2)-	37
167YB 38						0.692		38
167YB 39						0.720	(7/2)-	39
167YB 40						0.721	(21/2+)	40

167YB 41						0.727	(13/2-)	41
167YB 42						0.752		42
167YB 43						0.784	(17/2-)	43
167YB 44						0.788	(5/2,9/2)-	44
167YB 45						0.801		45
167YB 46						0.835		46
167YB 47						0.901	(15/2-)	47
167YB 48						0.966		48
167YB 49						0.987	(19/2-)	49
167YB 50						1.022	(5/2,9/2)+	50

167YB 51						1.061	(23/2+)	51
167YB 52						1.095	(17/2-)	52
167YB 53						1.122	(25/2+)	53
167YB 54						1.193	(21/2-)	54
167YB 55		1.267	5/2+					55
167YB 56						1.305	(19/2-)	56
167YB 57				1.306	7/2-			57
167YB 58						1.356	(9/2+,11/2+)	58
167YB 59						1.433	(23/2-)	59
167YB 60						1.531	(21/2-)	60

167YB 61						1.570	(27/2+)	61
167YB 62						1.602	(29/2+)	62
167YB 63						1.657	(25/2-)	63
167YB 64						1.759	(23/2-)	64
167YB 65						1.772	(23/2-)	65
167YB 66						1.895	(27/2-)	66
167YB 67						1.935	(27/2-)	67
167YB 68						1.947	(9/2+)	68
167YB 69						1.951	(9/2)	69
167YB 70						1.953	(7/2)+	70

167YB 71						1.974	5/2,7/2	71
167YB 72						1.975	(9/2)+	72
167YB 73						1.980	(7/2-)	73
167YB 74						1.995	(9/2-)	74
167YB 75						1.998	(9/2+)	75
167YB 76						2.012	(7/2,9/2-)	76
167YB 77						2.013	(7/2-)	77
167YB 78						2.026	(25/2-)	78
167YB 79						2.053	9/2(-)	79
167YB 80						2.149	(33/2+)	80

167YB 81						2.159	(29/2-)	81

167YB 82				2.159	(31/2+)	82
167YB 83				2.293	(27/2-)	83
167YB 84				2.330	9/2(+)	84
167YB 85				2.360	(31/2-)	85
167YB 86				2.483	(31/2-)	86
167YB 87				2.572	(29/2-)	87
167YB 88				2.684	(33/2-)	88
167YB 89				2.752	(37/2+)	89
167YB 90				2.818	(35/2+)	90

167YB 91				2.863	(31/2-)	91
167YB 92				2.882	(35/2-)	92
167YB 93				3.073	(35/2-)	93
167YB 94				3.165	(33/2-)	94
167YB 95				3.237	(37/2-)	95
167YB 96				3.399	(41/2+)	96
167YB 97				3.460	(39/2-)	97
167YB 98				3.481	(35/2-)	98
167YB 99				3.534	(39/2+)	99
167YB 100				3.703	(39/2-)	100

167YB 101				3.807	(37/2-)	101
167YB 102				3.815	(37/2-)	102
167YB 103				3.838	(41/2-)	103
167YB 104				4.078	(43/2-)	104
167YB 105				4.092	(45/2+)	105
167YB 106				4.117	(39/2-)	106
167YB 107				4.142	(39/2-)	107
167YB 108				4.296	(43/2+)	108
167YB 109				4.373	(43/2-)	109
167YB 110				4.435	(41/2-)	110

167YB 111				4.496	(45/2-)	111
167YB 112				4.503	(41/2-)	112
167YB 113				4.734	(47/2-)	113
167YB 114				4.764	(43/2-)	114
167YB 115				4.834	(49/2+)	115
167YB 116				4.861	(43/2-)	116
167YB 117				5.095	(47/2+)	117
167YB 118				5.096	(47/2-)	118
167YB 119				5.106	(45/2-)	119
167YB 120				5.213	(49/2-)	120

167YB 121				5.227	(45/2-)	121
167YB 122				5.444	(51/2-)	122
167YB 123				5.454	(47/2-)	123
167YB 124				5.615	(47/2-)	124
167YB 125				5.638	(53/2+)	125
167YB 126				5.813	(49/2-)	126
167YB 127				5.879	(51/2-)	127

167YB 128			5.921	(51/2+)	128
167YB 129			5.986	(53/2-)	129
S-p	=	5.992 (0.012)	-----		
167YB 130			6.009	(49/2-)	130

167YB 131			6.179	(51/2-)	131
167YB 132			6.217	(55/2-)	132
167YB 133			6.508	(57/2+)	133
167YB 134			6.553	(53/2-)	134
167YB 135			6.727	(55/2-)	135
167YB 136			6.760	(55/2+)	136
167YB 137			6.818	(57/2-)	137
167YB 138			6.936	(55/2-)	138
167YB 139			7.057	(59/2-)	139
S-n	=	7.068 (0.008)	-----		
167YB 140			7.335	(57/2-)	140

167YB 141			7.447	(61/2+)	141
167YB 142			7.640	(59/2-)	142
167YB 143			7.641	(59/2+)	143
167YB 144			7.714	(61/2-)	144
167YB 145			7.744	(59/2-)	145
167YB 146			7.965	(63/2-)	146
167YB 147			8.174	(61/2-)	147
167YB 148			8.454	(65/2+)	148
167YB 149			8.569	(63/2+)	149
167YB 150			8.605	(63/2-)	150

167YB 151			8.614	(63/2-)	151
167YB 152			8.678	(65/2-)	152
167YB 153			8.938	(67/2-)	153
167YB 154			9.525	(69/2+)	154
167YB 155			9.541	(67/2+)	155
167YB 156			9.638	(67/2-)	156
167YB 157			9.711	(69/2-)	157
167YB 158			9.973	(71/2-)	158

S-p	=	5.992 (0.012)	-----		
S-n	=	7.068 (0.008)	-----		
S-2p	=	10.646 (0.004)	-----		
S-2n	=	16.437 (0.027)	-----		
S-alpha	=	-2.153 (0.006)	-----		
S+p	=	-3.772 (0.038)			
S+n	=	-9.061 (0.004)			
S+2p	=	-8.705 (0.028)			
S+2n	=	-15.928 (0.004)			
S+alpha	=	2.734 (0.029)			

gap p = 2.221 (0.040)
gap n = -1.994 (0.009)
gap 2p = 1.941 (0.029)
gap 2n = 0.509 (0.027)
gap alpha = 0.581 (0.030)