

^{168}Yb $Z = 70$ $N = 98$ adopted link ENSDF link

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

BE = 1362.797 (0.000) MeV

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

S-alpha=	-1.938	(0.001)	-----		
168YB 1	0.000	0+			1 STABLE
168YB 2	0.088	2+			2 1.49 NS 4
168YB 3	0.287	4+			3
168YB 4	0.585	6+			4
168YB 5	0.970	8+			5
168YB 6	0.984	2+			6 1.03 PS 10
168YB 7				1.067 (3)+	7
168YB 8				1.098	8
168YB 9				1.155 (0+)	9
168YB 10				1.160 (1-)	10

168YB 11				1.171 (4)+	11
168YB 12	1.197	0+			12 1.3 NS 3
168YB 13				1.232 (1-)	13
168YB 14	1.233	2+			14
168YB 15				1.279 (2+)	15
168YB 16				1.302 (5)+	16
168YB 17				1.340 (0+)	17
168YB 18				1.390 (4+)	18
168YB 19				1.408 (2-)	19
168YB 20	1.425	10+			20

168YB 21				1.433	21
168YB 22				1.445 (6)+	22
168YB 23				1.452 (3)+	23
168YB 24				1.473 (4+)	24
168YB 25			1.480 3-		25
168YB 26				1.480 (4+)	26
168YB 27				1.543 (0+)	27 1.1 NS LE
168YB 28				1.551 (4+)	28
168YB 29			1.595 3-		29
168YB 30				1.598 (-)	30

168YB 31				1.605 (2+)	31
168YB 32				1.618 (7+)	32
168YB 33				1.651 (2,3,4)-	33
168YB 34				1.674 (5+)	34
168YB 35				1.698	35
168YB 36				1.725 (4+)	36
168YB 37				1.730 (1,2+)	37

168YB 38				1.770	5-				38
168YB 39							1.793		39
168YB 40							1.819	(6+)	40

168YB 41							1.842	(6-)	41
168YB 42							1.860		42
168YB 43							1.904	(0+)	43
168YB 44							1.918		44
168YB 45		1.936	12+						45
168YB 46							1.945	(11)	46
168YB 47							1.973	(5,6+)	47
168YB 48							1.973	(2+)	48
168YB 49							1.987	(7+)	49
168YB 50							1.993		50

168YB 51							1.999	(5)-	51 82 NS 5
168YB 52							2.003	(9+)	52
168YB 53							2.011	(2+,3,4+)	53
168YB 54							2.056	(2+,3+,4+)	54
168YB 55							2.065	(2+,3,4+)	55
168YB 56							2.092		56
168YB 57							2.101	(8-)	57
168YB 58							2.111	(5-,6-,7-)	58 0.34 NS 6
168YB 59							2.122		59
168YB 60							2.135	(3+,4+)	60

168YB 61							2.159	(4+)	61
168YB 62							2.160	(0+)	62
168YB 63							2.173		63
168YB 64							2.174	(8+)	64
168YB 65		2.180	4+						65
168YB 66							2.204	(4)+	66 0.14 NS LT
168YB 67							2.222	(-)	67 62 NS 8
168YB 68							2.256	(3+,4+)	68
168YB 69							2.292		69
168YB 70							2.327		70

168YB 71							2.365	(4+)	71
168YB 72							2.405	(3)+	72
168YB 73							2.415	(3,4,5)	73
168YB 74							2.427	(10-)	74
168YB 75							2.428	(2+,3+,4+)	75
168YB 76							2.444	(11+)	76
168YB 77							2.464		77
168YB 78							2.475	(2+,3,4+)	78
168YB 79		2.489	14+						79
168YB 80							2.500		80

168YB 81							2.514	(13)	81
168YB 82							2.645		82

168YB 83						2.825	(12-)	83
168YB 84						2.846	(13-)	84
168YB 85						2.931	(13+)	85
168YB 86		3.073	16+					86
168YB 87						3.131	(15)	87
168YB 88						3.295	(14-)	88
168YB 89						3.310	(15-)	89
168YB 90						3.447	(15+)	90

168YB 91						3.532	(15+)	91
168YB 92						3.613	(15-)	92
168YB 93		3.687	18+					93
168YB 94						3.797	(17)	94
168YB 95						3.821	(17-)	95
168YB 96						3.828	(16-)	96
168YB 97						3.982	(17+)	97
168YB 98						4.092	(17+)	98
168YB 99						4.134	(18+)	99
168YB 100						4.165	(17-)	100

168YB 101		4.337	20+					101
168YB 102						4.374	(19-)	102
168YB 103						4.410	(18-)	103
168YB 104						4.514	(19)	104
168YB 105						4.580	(19+)	105
168YB 106						4.721	(19+)	106
168YB 107						4.763	(19-)	107
168YB 108						4.786	(20+)	108
168YB 109						4.969	(21-)	109
168YB 110						5.032	(20-)	110

168YB 111		5.037	22+					111
168YB 112						5.256	(21+)	112
168YB 113						5.287	(21)	113
168YB 114						5.400	(21-)	114
168YB 115						5.405	(21+)	115
168YB 116						5.511	(22+)	116
168YB 117						5.612	(23-)	117
168YB 118						5.687	(22-)	118
168YB 119		5.797	24+					119
168YB 120						6.009	(23+)	120

168YB 121						6.081	(23-)	121
168YB 122						6.122	(23)	122
168YB 123						6.143	(23+)	123
168YB 124						6.276	(24+)	124
168YB 125						6.315	(25-)	125

S-p	=	6.326	(0.001)	-----				
168YB 126						6.392	(24-)	126
168YB 127		6.624	26+					127

168YB 128						6.810	(25-)	128
168YB 129						6.835	(25+)	129
168YB 130						6.939	(25+)	130

168YB 131						7.024	(25)	131
168YB 132						7.073	(26+)	132
168YB 133						7.082	(27-)	133
168YB 134						7.156	(26-)	134
168YB 135		7.517	28+					135
168YB 136						7.599	(27-)	136
168YB 137						7.727	(27+)	137
168YB 138						7.792	(27+)	138
168YB 139						7.912	(28+)	139
168YB 140						7.917	(29-)	140

168YB 141						7.984	(28-)	141
168YB 142						8.453	(29-)	142
168YB 143		8.475	30+					143
168YB 144						8.669	(29+)	144
168YB 145						8.698	(29+)	145
168YB 146						8.801	(30+)	146
168YB 147						8.826	(31-)	147
168YB 148						8.880	(30-)	148
S-n	=	9.061	(0.004)	-----				
168YB 149						9.372	(31-)	149
168YB 150		9.496	32+					150

168YB 151						9.748	(32+)	151
168YB 152						9.803	(33-)	152
168YB 153						9.841	(32-)	153

S-p	=	6.326	(0.001)	-----				
S-n	=	9.061	(0.004)	-----				
S-2p	=	11.234	(0.000)	-----				
S-2n	=	16.129	(0.007)	-----				
S-alpha	=	-1.938	(0.001)	-----				

S+p	=	-3.792	(0.003)					
S+n	=	-6.867	(0.000)					
S+2p	=	-9.252	(0.028)					
S+2n	=	-15.327	(0.000)					
S+alpha	=	2.753	(0.024)					

gap p	=	2.534	(0.003)					
gap n	=	2.194	(0.004)					
gap 2p	=	1.982	(0.028)					
gap 2n	=	0.802	(0.007)					
gap alpha	=	0.815	(0.024)					