

^{175}Yb $Z = 70$ $N = 105$ adopted link ENSDF link

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

BE = 1412.412 (0.000) MeV

Qbeta- = 0.470 (0.001) MeV

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

S-alpha=	-0.597	(0.001)	-----		
175YB 1				0.000 (7/2-)	1 4.185 D 1
175YB 2				0.105 (9/2-)	2
175YB 3				0.232 (11/2-)	3
175YB 4				0.268 (9/2+)	4
175YB 5				0.380 (13/2-)	5
175YB 6				0.385 (11/2+)	6
175YB 7				0.460	7
175YB 8		0.515	1/2-		8 68.2 MS 3
175YB 9				0.524 (13/2+)	9
175YB 10				0.551 (15/2-)	10

175YB 11		0.556	3/2-		11
175YB 12		0.603	5/2-		12
175YB 13				0.639 (5/2-)	13
175YB 14				0.685 (15/2+)	14
175YB 15		0.698	7/2-		15
175YB 16				0.729 (7/2-)	16
175YB 17				0.742 (17/2-)	17
175YB 18				0.782 (9/2-)	18
175YB 19				0.811 (3/2-)	19
175YB 20				0.844 (9/2-)	20

175YB 21				0.868 (17/2+)	21
175YB 22				0.872 (5/2-)	22
175YB 23		0.920	1/2-		23
175YB 24				0.955 (19/2-)	24
175YB 25				0.957 (7/2-)	25
175YB 26				0.983 (11/2-)	26
175YB 27		0.992	3/2-		27
175YB 28				1.009 (7/2+)	28
175YB 29				1.009 (5/2-)	29
175YB 30				1.021	30

175YB 31				1.035	31
175YB 32				1.062	32
175YB 33				1.068 (3/2+)	33
175YB 34				1.073 (19/2+)	34
175YB 35				1.097 5/2-,7/2-	35
175YB 36				1.118	36

175YB 37				1.121	(5/2+)	37
175YB 38				1.156		38
175YB 39		1.175	7/2-			39
175YB 40				1.185	(21/2-)	40

175YB 41				1.195		41
175YB 42				1.197	(7/2+)	42
175YB 43				1.204		43
175YB 44				1.210		44
175YB 45				1.223		45
175YB 46				1.262		46
175YB 47				1.290		47
175YB 48				1.298	(21/2+)	48
175YB 49				1.308		49
175YB 50				1.346	(13/2)+	50

175YB 51				1.356	(1/2+)	51
175YB 52				1.368	(5/2+)	52
175YB 53				1.425	7/2+,9/2+	53
175YB 54				1.436	(23/2-)	54
175YB 55				1.461	3/2+,5/2+	55
175YB 56				1.469	(3/2+)	56
175YB 57				1.497	(3/2+)	57 0.1 NS LT
175YB 58				1.517		58
175YB 59				1.536		59
175YB 60				1.548	(23/2+)	60

175YB 61				1.550	1/2,3/2,5/2+	61
175YB 62				1.567		62
175YB 63				1.581		63
175YB 64				1.604		64
175YB 65				1.620		65
175YB 66				1.627	1/2-,3/2-	66
175YB 67				1.636		67
175YB 68				1.642		68
175YB 69				1.648	1/2,3/2,5/2+	69
175YB 70				1.650		70

175YB 71				1.661	1/2,3/2,5/2+	71
175YB 72				1.671		72
175YB 73				1.683	1/2,3/2,5/2+	73
175YB 74				1.686	1/2-,3/2-	74
175YB 75				1.690		75
175YB 76				1.691	1/2,3/2,5/2+	76
175YB 77				1.703	(25/2-)	77
175YB 78				1.743		78
175YB 79				1.750		79
175YB 80				1.754		80

175YB 81				1.776	5/2-,7/2-	81

175YB 82			1.793		82
175YB 83			1.802		83
175YB 84			1.809		84
175YB 85			1.813	(25/2+)	85
175YB 86			1.815		86
175YB 87			1.823		87
175YB 88			1.834		88
175YB 89			1.842		89
175YB 90			1.844	1/2,3/2,5/2+	90

175YB 91			1.852		91
175YB 92			1.861		92
175YB 93			1.865		93
175YB 94			1.871		94
175YB 95			1.877		95
175YB 96			1.882		96
175YB 97			1.892		97
175YB 98			1.893	(1/2-,3/2-)	98
175YB 99			1.902		99
175YB 100			1.912		100

175YB 101			1.919		101
175YB 102			1.933		102
175YB 103			1.937	(1/2-,3/2-)	103
175YB 104			1.949		104
175YB 105			1.961		105
175YB 106			1.968	1/2,3/2,5/2+	106
175YB 107			1.980	1/2,3/2,5/2+	107
175YB 108			1.990	(27/2-)	108
175YB 109			1.999	1/2,3/2,5/2+	109
175YB 110			2.015		110

175YB 111			2.024		111
175YB 112			2.039	1/2,3/2,5/2	112
175YB 113			2.046	1/2,3/2,5/2	113
175YB 114			2.054	(11/2+,13/2+)	114
175YB 115			2.065	1/2,3/2,5/2	115
175YB 116			2.082		116
175YB 117			2.094		117
175YB 118			2.108	(1/2-,3/2-)	118
175YB 119			2.108	(27/2+)	119
175YB 120			2.114		120

175YB 121			2.119		121
175YB 122			2.132		122
175YB 123			2.140		123
175YB 124			2.143		124
175YB 125			2.161	1/2,3/2,5/2	125
175YB 126			2.182		126
175YB 127			2.190	(1/2-,3/2-)	127

175YB 128			2.196		128
175YB 129			2.209		129
175YB 130			2.216		130

175YB 131			2.220		131
175YB 132			2.234	3/2+, 5/2+	132
175YB 133			2.251		133
175YB 134			2.280		134
175YB 135			2.284	5/2-, 7/2-	135
175YB 136			2.292	(29/2-)	136
175YB 137			2.301	3/2+, 5/2+	137
175YB 138			2.318		138
175YB 139			2.331	3/2+, 5/2+	139
175YB 140			2.349		140

175YB 141			2.366		141
175YB 142			2.386		142
175YB 143			2.399	3/2+, 5/2+	143
175YB 144			2.408	(29/2+)	144
175YB 145			2.416		145
175YB 146			2.431		146
175YB 147			2.438	3/2+, 5/2+	147
175YB 148			2.451		148
175YB 149			2.458		149
175YB 150			2.471		150

175YB 151			2.491	3/2+, 5/2+	151
175YB 152			2.507		152
175YB 153			2.515		153
175YB 154			2.523		154
175YB 155			2.533		155
175YB 156			2.542	3/2+, 5/2+	156
175YB 157			2.552		157
175YB 158			2.572		158
175YB 159			2.583		159
175YB 160			2.600		160

175YB 161			2.612	(31/2-)	161
175YB 162			2.630		162
175YB 163			2.646		163
175YB 164			2.662		164
175YB 165			2.678		165
175YB 166			2.693		166
175YB 167			2.712		167
175YB 168			2.737		168
175YB 169			2.947	(33/2-)	169
175YB 170			3.297	(35/2-)	170

175YB 171			3.660	(37/2-)	171
175YB 172			4.035	(39/2-)	172

175YB 173 | | | 4.425 (41/2-) 173

S-p = 8.120 (0.045)-----
S-n = 5.822 (0.000)-----
S-2p = 15.610 (0.173)-----
S-2n = 13.287 (0.000)-----
S-alpha= -0.597 (0.001)-----

S+p = -5.976 (0.001)
S+n = -6.867 (0.000)
S+2p = -12.763 (0.001)
S+2n = -12.433 (0.000)
S+alpha = 1.808 (0.001)

gap p = 2.144 (0.045)
gap n = -1.045 (0.000)
gap 2p = 2.847 (0.173)
gap 2n = 0.853 (0.000)
gap alpha = 1.210 (0.002)