

^{112}Sn $Z = 50$ $N = 62$ adopted link ENSDF link

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

BE = 953.525 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
112SN 1	0.000	0+			1 STABLE
112SN 2	1.257	2+			2 0.376 PS 5
S-alpha= 1.828 (0.001)-----					
112SN 3	2.151	2+			3 1.4 PS 4
112SN 4	2.191	0+			4 2.7 PS GE
112SN 5	2.247	4+			5 3.3 PS 5
112SN 6			2.354 3-		6 0.215 PS 14
112SN 7	2.476	2+			7 2.4 PS GT
112SN 8	2.521	4+			8 0.42 PS 14
112SN 9	2.549	6+			9 13.73 NS 8
112SN 10				2.557 (2+)	10

112SN 11	2.618	0+			11 0.4 PS GT
112SN 12	2.721	2+			12 0.8 PS +10-3
112SN 13	2.756	3+			13 0.8 PS GT
112SN 14				2.765 0+:4+	14 1.0 PS GT
112SN 15	2.784	4+			15 0.32 PS 7
112SN 16				2.860	16
112SN 17	2.913	4+			17 0.6 PS GT
112SN 18				2.917 2+,3,4+	18 1.1 PS GT
112SN 19	2.927	6+			19 0.22 PS GT
112SN 20	2.946	4+			20 1.1 PS GT

112SN 21	2.967	2+			21 0.5 PS +8-2
112SN 22				2.969	22 0.29 PS +21-9
112SN 23	2.986	0+			23 1.7 PS GT
112SN 24				3.079 (2,3)+	24 1.2 PS GT
112SN 25	3.092	2+			25 0.25 PS +8-5
112SN 26				3.114 0+:4+	26
112SN 27			3.133 5-		27 1.0 PS GT
112SN 28				3.141	28
112SN 29	3.149	4+			29 0.6 PS +10-2
112SN 30	3.249	2+			30 1.1 PS GT

112SN 31	3.272	4+			31 0.30 PS +21-10
112SN 32	3.284	2+			32
112SN 33				3.286 (2)+	33 0.22 PS +15-7
112SN 34				3.288 (1,2+)	34
112SN 35	3.338	2+			35 0.3 PS GT
112SN 36	3.353	2+			36 1.4 PS GT
112SN 37				3.354 (7)-	37

112SN	38					3.379	0+:4+	38		
112SN	39					3.384	(3)-	39	0.18 PS	+8-5
112SN	40					3.397	2-,3-	40	0.23 PS	+10-6

112SN	41	3.400	4+					41		
112SN	42	3.414	6+					42	0.6 PS	3
112SN	43	3.417	4+					43	0.4 PS	GT
112SN	44					3.431	(8)-	44	0.61 NS	3
112SN	45					3.434	(1-)	45	1.9 FS	+11-10
112SN	46	3.445	4+					46		
112SN	47					3.456	2+,3+	47	0.7 PS	GT
112SN	48	3.472	4+					48	0.23 PS	GT
112SN	49					3.494	2+:6+	49		
112SN	50			3.499	5-			50	0.04 PS	+4-2

112SN	51					3.520	1:4+	51		
112SN	52	3.525	2+					52	0.12 PS	GT
112SN	53					3.530	2+,3,4+	53		
112SN	54					3.554	(3)-	54	0.17 PS	+11-6
112SN	55					3.557		55	0.3 PS	GT
112SN	56					3.570	(0)+	56		
112SN	57					3.580	(4)+	57		
112SN	58					3.586	(2)+	58		
112SN	59					3.605		59		
112SN	60					3.611		60	0.8 PS	+4-2

112SN	61					3.624	(2+,4+)	61		
112SN	62					3.631		62		
112SN	63	3.654	2+					63		
112SN	64					3.694	(9)-	64	47 PS	7
112SN	65					3.726		65		
112SN	66					3.754		66		
112SN	67					3.783		67		
112SN	68					3.814	(2+,3+,4+)	68		
112SN	69					3.832		69		
112SN	70					3.857		70		

112SN	71					3.877		71		
112SN	72					3.914		72		
112SN	73					3.988		73		
112SN	74					4.031		74		
112SN	75					4.054		75		
112SN	76	4.078	8+					76	1.0 PS	4
112SN	77					4.105		77		
112SN	78					4.141	(1-)	78		
112SN	79					4.151		79		
112SN	80					4.162	(1-)	80		

112SN	81					4.171	4(+)	81		
112SN	82					4.193		82		

112SN 83				4.222		83
112SN 84				4.239		84
112SN 85				4.279		85
112SN 86				4.330	(1-)	86
112SN 87				4.364		87
112SN 88				4.402		88
112SN 89				4.437		89
112SN 90				4.461		90

112SN 91				4.502		91
112SN 92				4.544		92
112SN 93				4.583	(10)-	93 0.24 PS 7
112SN 94				4.610		94
112SN 95				4.681	(10+)	95
112SN 96				4.727	(1-)	96
112SN 97				4.757		97
112SN 98				4.794		98
112SN 99	4.819	10+				99 0.14 PS 7
112SN 100				4.837	(1-)	100

112SN 101				4.850		101
112SN 102				4.887		102
112SN 103				4.929	(11)-	103 21 PS LT
112SN 104				4.957		104
112SN 105				5.057	(1-)	105
112SN 106				5.089		106
112SN 107				5.128	(1-)	107
112SN 108				5.144		108
112SN 109				5.181		109
112SN 110				5.246	(1-)	110

112SN 111				5.270		111
112SN 112				5.355		112
112SN 113				5.481	(1-)	113
112SN 114				5.503	(1-)	114
112SN 115	5.564	12+				115 0.66 PS 14
112SN 116				5.594	(1-)	116
112SN 117				5.618	(1-)	117
112SN 118				5.649	(1-)	118
112SN 119				5.666	(1-)	119
112SN 120	5.685	12+				120

112SN 121				5.700	(1-)	121
112SN 122				5.749	(1-)	122
112SN 123				5.813	(1-)	123
112SN 124				5.861	(1-)	124
112SN 125				5.884	(1-)	125
112SN 126				5.924	(1-)	126
112SN 127				5.977	(1-)	127
112SN 128				6.005	(1-)	128

112SN 129				6.060	(1-)	129
112SN 130				6.081	(1-)	130

112SN 131				6.097	(1-)	131
112SN 132				6.129	(1-)	132
112SN 133				6.150	(1-)	133
112SN 134				6.168	(1-)	134
112SN 135				6.199	(1-)	135
112SN 136				6.224	(1-)	136
112SN 137				6.246	(1-)	137
112SN 138				6.259	(1-)	138
112SN 139				6.273	(1-)	139
112SN 140				6.313	(1-)	140

112SN 141				6.349	(1-)	141
112SN 142		6.363	14+			142 1.2 PS 3
112SN 143				6.388	(1-)	143
112SN 144				6.398	(13-)	144
112SN 145				6.404	(1-)	145
112SN 146				6.429	(1-)	146
112SN 147				6.450	(1-)	147
112SN 148				6.476	(1-)	148
112SN 149				6.521	(1-)	149
112SN 150				6.550	(1-)	150

112SN 151				6.601	(1-)	151
112SN 152				6.680	(1-)	152
112SN 153				6.707	(1-)	153
112SN 154				6.715	(1-)	154
112SN 155				6.732	(1-)	155
112SN 156				6.795	(1-)	156
112SN 157				6.819	(1-)	157
112SN 158				6.824	(1-)	158
112SN 159				6.856	(1-)	159
112SN 160				6.871	(1-)	160

112SN 161				6.941	(1-)	161
112SN 162				6.962	(1-)	162
112SN 163				6.983	(1-)	163
112SN 164				7.010	(1-)	164
112SN 165				7.019	(1-)	165
112SN 166				7.026	(1-)	166
112SN 167				7.043	(1-)	167
112SN 168				7.093	(1-)	168
112SN 169				7.167	(1-)	169
112SN 170				7.198	(1-)	170

112SN 171				7.207	(15-)	171
112SN 172			7.208 1-			172
112SN 173		7.214	16+			173 0.55 PS 10

112SN 174				7.218	(1-)	174
112SN 175				7.228	(1-)	175
112SN 176				7.248	(1-)	176
112SN 177				7.311	(1-)	177
112SN 178				7.390	(1-)	178
112SN 179				7.439	(1-)	179
112SN 180				7.444	(1-)	180

112SN 181				7.468	(1-)	181
112SN 182				7.531	(1-)	182
112SN 183				7.537	(1-)	183
S-p	=	7.552	(0.003)	-----		
112SN 184				7.559	(1-)	184
112SN 185				7.595	(1-)	185
112SN 186				7.615	(1-)	186
112SN 187				7.859	(1-)	187
112SN 188				7.905	(1-)	188
112SN 189				7.937	(1-)	189
112SN 190				7.988	(1-)	190

112SN 191				8.021	(1-)	191
112SN 192				8.052	(1-)	192
112SN 193				8.070	(1-)	193
112SN 194				8.083	(17-)	194
112SN 195		8.147	18+			195 0.34 PS +8-10
112SN 196				8.194	(1-)	196
112SN 197				8.218	(1-)	197
112SN 198				8.254	(1-)	198
112SN 199				8.449	(1-)	199
112SN 200				8.569	(1-)	200

112SN 201				8.600	(1-)	201
112SN 202				8.750	(1-)	202
112SN 203				8.823	(1-)	203
112SN 204				9.045	(19-)	204
112SN 205				9.050	(1-)	205
112SN 206				9.095	(1-)	206
112SN 207				9.150	(1-)	207
112SN 208		9.187	20+			208 0.22 PS 6
112SN 209				9.330	(1-)	209

S-p = 7.552 (0.003)-----
S-n = 10.788 (0.005)-----
S-2p = 12.885 (0.000)-----
S-2n = 18.956 (0.014)-----
S-alpha= 1.828 (0.001)-----

S+p = -3.051 (0.017)
S+n = -7.744 (0.002)

S+2p = -7.812 (0.024)
S+2n = -18.047 (0.000)
S+alpha = 0.966 (0.024)

gap p = 4.501 (0.018)
gap n = 3.044 (0.006)
gap 2p = 5.073 (0.024)
gap 2n = 0.908 (0.014)
gap alpha = 2.794 (0.024)