

^{110}Sn $Z = 50$ $N = 60$ adopted link ENSDF link

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

BE = 934.570 (0.014) MeV

Qbeta+ = 0.628 (0.018) MeV

	Energy T	J+	J-	J-other	T1/2
110SN 1	0.000	0+			1 4.154 H 4
S-alpha= 1.135 (0.014)					
110SN 2	1.212	2+			2 0.48 PS 4
110SN 3				2.058 (0+,2)	3
110SN 4	2.121	2+			4
110SN 5	2.197	4+			5
110SN 6	2.309	0+			6
110SN 7	2.456	4+			7
110SN 8			2.458 3-		8
110SN 9	2.478	6+			9 5.6 NS 3
110SN 10	2.546	2+			10
110SN 11	2.573	0+			11
110SN 12	2.694	4+			12
110SN 13	2.742	0+			13
110SN 14	2.754	6+			14
110SN 15				2.800 (6+)	15
110SN 16				2.822 (2+,3,4+)	16
110SN 17	2.834	2+			17
110SN 18	2.857	2+			18
110SN 19	2.915	2+			19
110SN 20				2.948 (3,4+)	20
110SN 21			2.964 5-		21
110SN 22	2.965	2+			22
110SN 23				2.977 (2,3,4+)	23
110SN 24	2.983	4+			24
110SN 25				2.997 (2+)	25
110SN 26	3.059	4+			26
110SN 27	3.083	2+			27
110SN 28	3.153	2+			28
110SN 29				3.183 (2,3,4+)	29
110SN 30	3.183	0+			30
110SN 31				3.211 (3,4,5)	31
110SN 32				3.223 (3,4+)	32
110SN 33				3.249 (6)-	33
110SN 34	3.252	4+			34
110SN 35	3.320	2+			35
110SN 36				3.321 (6+)	36

110SN 37						3.335	(6+)		37
110SN 38				3.355	5-				38
110SN 39				3.417	5-				39
110SN 40		3.421	2+						40

110SN 41						3.447	(2,3,4+)		41
110SN 42						3.472			42
110SN 43		3.540	4+						43
110SN 44						3.577			44
110SN 45						3.594			45
110SN 46		3.609	4+						46
110SN 47						3.630	(3,4+)		47
110SN 48						3.643			48
110SN 49				3.688	7-				49
110SN 50		3.751	2+						50

110SN 51				3.766	8-				51 1.16 NS 10
110SN 52						3.807			52
110SN 53		3.812	2+						53
110SN 54		3.813	8+						54
110SN 55				3.844	5-				55
110SN 56				3.885	3-				56
110SN 57				3.934	9-				57 121 PS 19
110SN 58						3.971			58
110SN 59						3.992	(8+)		59
110SN 60						4.004	(7)+		60

110SN 61						4.132	3-&5-		61
110SN 62						4.138	(8+)		62
110SN 63						4.158			63
110SN 64						4.281	(8+)		64
110SN 65						4.316	(8)+		65
110SN 66		4.317	4+						66
110SN 67						4.317	(10)		67
110SN 68						4.465			68
110SN 69						4.501			69
110SN 70						4.600			70

110SN 71						4.626			71
110SN 72						4.644			72
110SN 73				4.780	9-				73
110SN 74						4.881	(10+)		74
110SN 75				4.895	10-				75 21 PS LT
110SN 76						5.006	(2,3,4+)		76
110SN 77						5.017	(10+)		77
110SN 78				5.108	11-				78 52 PS 16
110SN 79						5.220	(10+)		79
110SN 80		5.229	10+						80

110SN 81				5.331	11-				81

110SN 82				5.731	(12+)	82
110SN 83				5.939	(9-)	83
110SN 84				6.037	(12+)	84
110SN 85				6.067	(10-)	85
110SN 86				6.207	(11-)	86
110SN 87				6.355	(12-)	87
110SN 88				6.371	(12)	88
110SN 89				6.545	(13)	89
110SN 90				6.598	(14+)	90

110SN 91				6.613	(13)	91
S-p	=	6.642	(0.014)	-----		
110SN 92				6.778	(14+)	92
110SN 93				6.974	(14)	93
110SN 94				7.541	(16+)	94
110SN 95				7.588	(16+)	95
110SN 96				8.492	(18+)	96
110SN 97				9.495	(20+)	97

S-p = 6.642 (0.014)-----
S-n = 11.283 (0.016)-----
S-2p = 11.168 (0.014)-----
S-2n = 19.915 (0.015)-----
S-alpha= 1.135 (0.014)-----

S+p = -2.284 (0.016)
S+n = -8.168 (0.015)
S+2p = -6.303 (0.016)
S+2n = -18.956 (0.014)
S+alpha = 1.528 (0.028)

gap p = 4.358 (0.022)
gap n = 3.115 (0.022)
gap 2p = 4.864 (0.021)
gap 2n = 0.959 (0.020)
gap alpha = 2.662 (0.031)