

^{123}Sn $Z = 50$ $N = 73$ adopted link ENSDF link

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

BE = 1041.469 (0.002) MeV

Qbeta- = 1.408 (0.003) MeV

	Energy	T	J+	J-	J-other	T1/2		
123SN	1			0.000	11/2-		1	129.2 D 5
123SN	2		0.025	3/2+			2	40.06 M 2
123SN	3		0.150	1/2+			3	
123SN	4				0.619	(9/2)-	4	
123SN	5				0.870	(5/2)+	5	
123SN	6				0.920	(3/2)+	6	
123SN	7			0.931	7/2-		7	
123SN	8				1.044	(7/2)+	8	0.1 NS LT
123SN	9				1.072	(1/2,3/2)+	9	
123SN	10				1.107	(15/2-)	10	
123SN	11				1.109		11	
123SN	12				1.136	(1/2,3/2,5/2)+	12	
123SN	13		1.155	7/2+			13	0.1 NS LT
123SN	14				1.195	(5/2)+	14	
123SN	15				1.217	(13/2-)	15	
123SN	16				1.301		16	
123SN	17				1.440		17	
123SN	18				1.466		18	
123SN	19				1.489	(5/2)+	19	
123SN	20				1.714		20	
123SN	21				1.729		21	
123SN	22				1.780	3/2+,5/2+	22	
123SN	23				1.829	(1/2-,3/2-)	23	
123SN	24				1.902	3/2+,5/2+	24	
123SN	25				1.926	(15/2+)	25	
123SN	26				1.945	(19/2+)	26	7.4 US 26
123SN	27				2.001	(9/2)+	27	
123SN	28				2.026	3/2+,5/2+	28	
123SN	29				2.085	3/2+,5/2+	29	
123SN	30				2.099	(19/2-)	30	
123SN	31				2.114	(3/2+,5/2+)	31	
123SN	32				2.153	(23/2+)	32	6 US
123SN	33				2.156	(1/2,3/2,5/2)	33	
123SN	34				2.157	(1/2,3/2,5/2)	34	
123SN	35				2.260	1/2-,3/2-	35	
123SN	36				2.263	(19/2-)	36	
123SN	37				2.270	3/2+,5/2+	37	

123SN 38						2.362	7/2+,9/2+	38
123SN 39						2.395	(21/2+)	39
123SN 40		2.425	1/2+					40

123SN 41						2.446		41
123SN 42						2.542	(23/2-)	42
123SN 43						2.615	(1/2+)	43
123SN 44						2.621	(1/2+)	44
123SN 45						2.676	5/2-,7/2-	45
123SN 46						2.712	(27/2-)	46 34 US
123SN 47						2.716	(7/2)-	47
123SN 48						2.730	7/2+,9/2+	48
123SN 49						2.746	5/2-,7/2-	49
123SN 50						2.820	5/2-,7/2-	50

123SN 51						2.850	(3/2+,5/2+)	51
123SN 52						2.950	7/2+,9/2+	52
123SN 53						3.040	5/2-,7/2-	53
123SN 54						3.073	(5/2-,7/2-)	54
123SN 55						3.113	5/2-,7/2-	55
123SN 56						3.152	(7/2)-	56
123SN 57						3.188	(1/2-,3/2,5/2+)	57
123SN 58						3.217	5/2-,7/2-	58
123SN 59						3.240	3/2+,5/2+	59
123SN 60						3.259		60

123SN 61						3.293	(27/2+)	61
123SN 62						3.306		62
123SN 63						3.320	(3/2-)	63
123SN 64						3.345	(1/2-,3/2,5/2+)	64
123SN 65						3.383	(1/2-,3/2,5/2+)	65
123SN 66						3.435	(1/2-,3/2,5/2+)	66
123SN 67						3.456	(1/2-,3/2,5/2+)	67
123SN 68						3.514		68
123SN 69						3.534	(1/2-,3/2,5/2+)	69
123SN 70						3.551	(1/2-,3/2,5/2+)	70

123SN 71						3.632	(1/2-,3/2,5/2+)	71
123SN 72						3.650	(1/2-,3/2,5/2+)	72
123SN 73						3.677		73
123SN 74						3.694		74
123SN 75						3.720	(1/2-,3/2,5/2+)	75
123SN 76						3.735		76
123SN 77						3.756	(31/2-)	77
123SN 78						3.773	(1/2-,3/2,5/2+)	78
123SN 79						3.809	(1/2-,3/2,5/2+)	79
123SN 80						3.818	(31/2-)	80

123SN 81						3.827	(1/2-,3/2,5/2+)	81
123SN 82						3.849	(1/2-,3/2,5/2+)	82

123SN 83			3.868		83
123SN 84			3.910	5/2-,7/2-	84
123SN 85			3.966	5/2-,7/2-	85
123SN 86			4.008	(1/2-)	86
123SN 87			4.057	5/2-,7/2-	87
123SN 88			4.075	5/2-,7/2-	88
123SN 89			4.105		89
123SN 90			4.117	(31/2+)	90

123SN 91			4.267	(1/2-,3/2,5/2+)	91
123SN 92			4.358	5/2-,7/2-	92
123SN 93			4.378	(35/2+)	93
123SN 94			4.423	5/2-,7/2-	94
123SN 95			4.464		95
123SN 96			4.736		96
123SN 97			4.744	(35/2-)	97
123SN 98			4.773		98
123SN 99			4.810	(35/2-)	99
123SN 100			4.845		100

123SN 101			4.875		101
123SN 102			4.923		102
123SN 103			4.964		103
123SN 104			5.019		104
123SN 105			5.127		105
123SN 106			5.479	(39/2-)	106
123SN 107			5.520		107
123SN 108			5.640		108
123SN 109			5.644	(39/2+)	109
123SN 110			5.946	3/2	110

123SN 111			5.946	1/2	111

S-n	=	5.946	(0.003)		
123SN 112			5.948		112
123SN 113			5.948		113
123SN 114			5.949		114
123SN 115			5.949		115
123SN 116			5.951		116
123SN 117			6.231	(39/2+)	117

S-alpha	=	6.263	(0.038)		
123SN 118			6.330		118
123SN 119			6.900		119
123SN 120			7.120		120

123SN 121			7.160	(43/2+)	121
123SN 122			8.520		122
123SN 123			9.040		123

S-p	=	11.532	(0.050)		

S-n = 5.946 (0.003)-----
S-2p = 21.319 (0.003)-----
S-2n = 14.761 (0.003)-----
S-alpha= 6.263 (0.038)-----

S+p = -7.093 (0.003)
S+n = -8.488 (0.003)
S+2p = -15.785 (0.003)
S+2n = -14.222 (0.003)
S+alpha = -2.891 (0.003)

gap p = 4.439 (0.050)
gap n = -2.542 (0.004)
gap 2p = 5.534 (0.004)
gap 2n = 0.539 (0.004)
gap alpha = 3.372 (0.038)