

$^{123}\text{Sb}$        $Z = 51$        $N = 72$       adopted link      ENSDF link

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

BE = 1042.095 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
123SB 1	0.000	7/2+			1 STABLE
123SB 2	0.160	5/2+			2 0.61 NS 4
123SB 3				0.542 (3/2)+	3 5.3 PS +12-10
123SB 4	0.713	1/2+			4
123SB 5				1.017 9/2-, 11/2-	5
123SB 6	1.030	9/2+			6 0.190 PS +16-14
123SB 7	1.089	11/2+			7 0.52 PS +5-4
123SB 8				1.181 (5/2, 7/2)	8
123SB 9				1.261 (9/2+)	9
123SB 10				1.337 7/2+, 9/2+	10
123SB 11				1.425	11
123SB 12				1.509 (5/2)+	12
123SB 13				1.514 7/2	13
123SB 14				1.576 3/2+, 5/2+	14
123SB 15				1.643 (5/2+)	15
123SB 16			1.656 11/2-		16
123SB 17				1.729 1/2-, 3/2-	17
123SB 18				1.732 3/2+, 5/2+	18
123SB 19				1.764 (7/2)+	19
123SB 20				1.773 (11/2)	20
123SB 21				1.778	21
123SB 22				1.810	22
123SB 23				1.884 1/2-, 3/2-	23
123SB 24				1.896	24
123SB 25				2.012	25
123SB 26				2.026	26
123SB 27				2.033	27
123SB 28				2.036	28
123SB 29				2.037 (15/2)-	29 37.3 NS 8
123SB 30				2.044 (15/2)+	30
123SB 31				2.048	31
123SB 32				2.059	32
123SB 33				2.105 3/2+, 5/2+	33
123SB 34				2.115	34
123SB 35				2.138	35
123SB 36				2.170	36
123SB 37				2.230	37
123SB 38				2.235 1/2-, 3/2-	38

123SB 39				2.235		39		
123SB 40				2.238	(19/2-)	40	214 NS	3
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123SB 41				2.239		41		
123SB 42				2.252	(5/2+)	42		
123SB 43				2.270		43		
123SB 44				2.274		44		
123SB 45				2.279		45		
123SB 46				2.283		46		
123SB 47				2.292	(9/2)-	47		
123SB 48				2.297		48		
123SB 49				2.301		49		
123SB 50				2.306		50		
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123SB 51				2.322		51		
123SB 52				2.329		52		
123SB 53				2.338	(15/2+)	53		
123SB 54				2.371		54		
123SB 55				2.377	+	55		
123SB 56				2.385	(17/2,19/2)-	56		
123SB 57				2.423		57		
123SB 58				2.429		58		
123SB 59				2.447		59		
123SB 60				2.455		60		
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123SB 61				2.459		61		
123SB 62				2.472		62		
123SB 63				2.486	(19/2)+	63	0.7 NS	2
123SB 64				2.507		64		
123SB 65				2.522		65		
123SB 66	2.522	1/2+				66		
123SB 67				2.584	3/2+,5/2+	67		
123SB 68				2.598		68		
123SB 69				2.606		69		
123SB 70				2.614	(23/2+)	70	62 US	4
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123SB 71				2.620		71		
123SB 72				2.633	7/2+,9/2+	72		
123SB 73				2.647		73		
123SB 74				2.687	(3/2+,5/2+)	74		
123SB 75				2.702		75		
123SB 76				2.732	9/2-,11/2-	76		
123SB 77				2.735	(21/2-)	77		
123SB 78				2.757	(5/2+)	78		
123SB 79				2.807	+	79		
123SB 80				2.843		80		
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123SB 81				2.861		81		
123SB 82				2.883		82		
123SB 83				2.891	3/2+,5/2+	83		

123SB 84			2.905		84
123SB 85			2.917	7/2+,9/2+	85
123SB 86			2.919		86
123SB 87			2.935		87
123SB 88			2.968	(23/2+)	88
123SB 89			2.977	9/2-,11/2-	89
123SB 90			2.989		90
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123SB 91			3.001		91
123SB 92			3.017	(9/2-)	92
123SB 93			3.053	(25/2+)	93
123SB 94			3.057		94
123SB 95			3.063		95
123SB 96			3.098		96
123SB 97			3.148		97
123SB 98			3.152		98
123SB 99			3.158	(9/2)-	99
123SB 100			3.184	7/2+,9/2+	100
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123SB 101			3.191		101
123SB 102			3.198		102
123SB 103			3.210		103
123SB 104			3.228	(9/2)-	104
123SB 105			3.278		105
123SB 106			3.281		106
123SB 107			3.294		107
123SB 108			3.297	(27/2+)	108
123SB 109			3.327	1/2-,3/2-	109
123SB 110			3.332		110
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123SB 111			3.349	(23/2-)	111
123SB 112			3.352		112
123SB 113			3.386	(9/2-)	113
123SB 114			3.400	(9/2-)	114
123SB 115			3.412		115
123SB 116			3.418		116
123SB 117			3.428		117
123SB 118			3.476	7/2+,9/2+	118
123SB 119			3.544	9/2-,11/2-	119
123SB 120			3.738	9/2-,11/2-	120
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123SB 121			3.787	(25/2-)	121
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S-alpha=	3.949	( 0.007)	-----		
123SB 122			4.025	(27/2-)	122
123SB 123			4.393		123
123SB 124			4.773		124
123SB 125			6.418	9/2	125
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S-p	=	6.572	( 0.003)	-----	
123SB 126			6.760	7/2	126
123SB 127			6.874	7/2	127

123SB 128				7.163	7/2	128
123SB 129				7.310	9/2	129

S-p = 6.572 ( 0.003)-----  
 S-n = 8.960 ( 0.003)-----  
 S-2p = 17.966 ( 0.027)-----  
 S-2n = 15.766 ( 0.003)-----  
 S-alpha= 3.949 ( 0.007)-----

S+p = -8.590 ( 0.002)  
 S+n = -6.468 ( 0.002)  
 S+2p = -14.191 ( 0.002)  
 S+2n = -15.175 ( 0.003)  
 S+alpha = -2.185 ( 0.004)

gap p = -2.018 ( 0.003)  
 gap n = 2.492 ( 0.003)  
 gap 2p = 3.775 ( 0.028)  
 gap 2n = 0.591 ( 0.004)  
 gap alpha = 1.764 ( 0.008)