

^{129}Sb $Z = 51$ $N = 78$ adopted link ENSDF link

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

BE = 1085.930 (0.021) MeV

Qbeta- = 2.376 (0.021) MeV

	Energy T	J+	J-	J-other	T1/2
129SB 1	0.000	7/2+			1 4.366 H 26
129SB 2				0.645 (5/2)+	2
129SB 3				0.914 (3/2)+	3
129SB 4				1.129 (11/2+)	4
129SB 5				1.161 (9/2+)	5
129SB 6				1.252 (3/2+,5/2,7/2-)	6
129SB 7				1.493 (1/2+)	7
129SB 8				1.504 (5/2+)	8
129SB 9				1.762 (1/2,3/2,5/2)	9
129SB 10				1.842 (1/2,3/2,5/2)	10
129SB 11				1.849 (5/2+)	11
129SB 12				1.851 (19/2-)	12 17.7 M 1
129SB 13				1.861 (15/2-)	13 2.2 US 2
129SB 14				1.911 (13/2-)	14
129SB 15				1.914 (1/2,3/2,5/2)	15
129SB 16				1.922 (11/2-)	16
129SB 17				1.929 (17/2-)	17
129SB 18				1.940 (15/2-,17/2-)	18
129SB 19				1.973 (13/2-)	19
129SB 20				1.992 (13/2-)	20
129SB 21				2.031 (11/2-,13/2-)	21
129SB 22				2.041 (19/2+)	22
129SB 23				2.115 (1/2,3/2,5/2)	23
129SB 24				2.139 (23/2+)	24 1.1 US 1
129SB 25				2.148 (15/2-)	25
129SB 26				2.148 (9/2,11/2,13/2)	26
129SB 27				2.155 (1/2,3/2,5/2)	27
129SB 28				2.181 (1/2,3/2,5/2)	28
129SB 29				2.221 (9/2,11/2,13/2)	29
129SB 30				2.232 (9/2-,11/2,13/2)	30
129SB 31				2.247 (13/2-,15/2+)	31
129SB 32				2.260 (1/2,3/2,5/2)	32
129SB 33				2.272 (15/2-)	33
129SB 34				2.295 (9/2-:15/2+)	34
129SB 35				2.297 (13/2-,15/2+)	35
129SB 36				2.303 (9/2-,11/2,13/2)	36+
129SB 37				2.317 (9/2,11/2,13/2+)	37

129SB 38				2.330	(13/2-)	38
129SB 39				2.369	(9/2,11/2,13/2+)	39
129SB 40				2.378	(9/2,11/2,13/2)	40

129SB 41				2.384	(1/2,3/2,5/2)	41
129SB 42				2.393	(1/2,3/2,5/2)	42
129SB 43				2.430	(11/2-,13/2+)	43
129SB 44				2.434	(13/2-,15/2+)	44
129SB 45				2.565	(11/2-,13/2)	45
129SB 46				2.568	(11/2-,13/2+)	46
129SB 47				2.611	(11/2-,13/2+)	47
129SB 48				2.665	(9/2,11/2,13/2+)	48)
129SB 49				2.678	(9/2,11/2,13/2)	49
129SB 50				2.698	(11/2-,13/2)	50

129SB 51				2.710	7/2+,9/2+	51
129SB 52				2.723	(11/2-,13/2)	52
129SB 53				2.726	(9/2,11/2,13/2)	53
129SB 54				2.748	(1/2,3/2,5/2)	54
129SB 55				2.767	(9/2,11/2,13/2)	55
129SB 56				2.785	(1/2,3/2,5/2)	56
129SB 57				2.797	(9/2,11/2,13/2+)	57)
129SB 58				2.823	(9/2-,11/2,13/2)	58
129SB 59				2.831	(1/2,3/2,5/2)	59
129SB 60				2.864	(11/2-,13/2)	60

129SB 61				2.882	(9/2,11/2,13/2+)	61)
129SB 62				2.884	(9/2,11/2,13/2)	62)
129SB 63				2.948	(9/2,11/2,13/2)	63
129SB 64				2.961	(9/2,11/2,13/2)	64
129SB 65				3.014	(9/2,11/2,13/2)	65)
129SB 66				3.032	(9/2-,11/2,13/2)	66)
129SB 67				3.070	(9/2,11/2,13/2)	67)
129SB 68				3.071	1/2-,3/2-	68
129SB 69				3.094	(1/2,3/2,5/2)	69
129SB 70				3.097	(9/2-,11/2,13/2)	70)

129SB 71				3.110		71
129SB 72				3.131	(9/2,11/2,13/2)	72
129SB 73				3.148	(9/2,11/2,13/2)	73)
129SB 74				3.164	(9/2,11/2,13/2)	74
129SB 75				3.209	(9/2,11/2,13/2)	75
129SB 76				3.274	(9/2-,11/2,13/2)	76)
129SB 77				3.281	(13/2-)	77
129SB 78				3.291		78
129SB 79				3.410	1/2-,3/2-	79
129SB 80				3.484	5/2-,7/2-	80

S-p = 8.557 (0.028)-----
S-n = 8.071 (0.028)-----
S-2p = 22.327 (0.023)-----
S-2n = 14.074 (0.022)-----
S-alpha= 6.642 (0.021)-----

S+p = -10.013 (0.021)
S+n = -5.728 (0.026)
S+2p = -17.391 (0.021)
S+2n = -13.495 (0.021)
S+alpha = -3.653 (0.022)

gap p = -1.456 (0.035)
gap n = 2.343 (0.038)
gap 2p = 4.936 (0.032)
gap 2n = 0.579 (0.031)
gap alpha = 2.989 (0.031)