

^{119}Sb $Z = 51$ $N = 68$ adopted link ENSDF link

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

BE = 1010.063 (0.007) MeV

Qbeta+ = 0.589 (0.007) MeV

	Energy T	J+	J-	J-other	T1/2
119SB	1 0.000	5/2+			1 38.19 H 22
119SB	2 0.271	7/2+			2 35 PS 10
119SB	3 0.644	1/2+			3 5.2 PS 48
119SB	4			0.700 3/2+,5/2+	4 300 FS GT
119SB	5 0.971	9/2+			5
119SB	6 1.048	7/2+			6 300 FS GT
119SB	7 1.213	9/2+			7 5.2 PS 48
119SB	8 1.250	9/2+			8
119SB	9			1.327 (1/2-)	9 76 FS GT
119SB	10 1.339	3/2+			10 0.07 PS +6-3
119SB	11 1.341	11/2+			11
119SB	12		1.366 11/2-		12 112 PS 15
119SB	13 1.407	11/2+			13
119SB	14		1.413 3/2-		14 0.12 PS +10-5
119SB	15			1.450	15
119SB	16			1.469 3/2+,5/2+	16
119SB	17		1.482 1/2-		17
119SB	18			1.488 (3/2+)	18 215 FS GT
119SB	19			1.547	19
119SB	20 1.646	1/2+			20 450 FS GT
119SB	21			1.660 (7/2+)	21
119SB	22			1.665 (3/2+,5/2+)	22
119SB	23 1.676	13/2+			23
119SB	24			1.730	24
119SB	25 1.750	3/2+			25 23 FS +11-7
119SB	26 1.821	1/2+			26 55 FS 22
119SB	27			1.848	27 130 FS GT
119SB	28			1.875 (1/2+,3/2)	28 0.08 PS +21-4
119SB	29			1.970 7/2+,9/2+	29
119SB	30			1.982	30 0.11 PS +28-7
119SB	31 2.038	15/2+			31
119SB	32			2.043	32
119SB	33			2.067	33
119SB	34			2.094	34
119SB	35			2.100	35
119SB	36			2.114 1/2+,3/2+,5/2+	36
119SB	37		2.130 9/2-		37

119SB 38						2.130				38
119SB 39		2.138		13/2+						39
119SB 40										40

119SB 41						2.187				41
119SB 42		2.202		13/2+						42
119SB 43										43
119SB 44						2.226		11/2-		44
119SB 45										45
119SB 46										46
119SB 47						2.279		13/2-		47
119SB 48						2.284		9/2-		48
119SB 49										49
119SB 50										50

119SB 51						2.320				51
119SB 52						2.327				52
119SB 53						2.355				53
119SB 54						2.360		9/2-		54

S-alpha=		2.364		(0.007)						

119SB 55						2.380		(9/2,13/2)		55
119SB 56						2.384				56
119SB 57		2.416		1/2+						57
119SB 58		2.419		17/2+						58
119SB 59										59
119SB 60						2.475		15/2-		60

119SB 61						2.505		15/2-		61
119SB 62										62
119SB 63						2.508				63
119SB 64						2.539				64
119SB 65						2.554		(19/2-)		65
119SB 66						2.561				66
119SB 67						2.624				67
119SB 68						2.708		17/2-		68
119SB 69										69
119SB 70						2.708		1/2+,3/2+,5/2+		70
119SB 71						2.748				71
119SB 72						2.749				72

119SB 71						2.769		(17/2+)		71
119SB 72						2.842		(21/2-)		72

S-p = 5.112 (0.007)-----
S-n = 9.551 (0.008)-----
S-2p = 15.110 (0.009)-----
S-2n = 16.979 (0.011)-----
S-alpha= 2.364 (0.007)-----

S+p = -7.176 (0.007)
S+n = -7.013 (0.010)

S+2p = -11.348 (0.008)
S+2n = -16.266 (0.007)
S+alpha = -0.892 (0.008)

gap p = -2.064 (0.010)
gap n = 2.538 (0.013)
gap 2p = 3.762 (0.012)
gap 2n = 0.712 (0.013)
gap alpha = 1.472 (0.011)