

^{111}Sb $Z = 51$ $N = 60$ adopted link ENSDF link

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

BE = 936.853 (0.009) MeV

Qbeta+ = 5.102 (0.010) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-0.305	(0.013)	-----		
111SB 1				0.000 (5/2+)	1 75 S 1
111SB 2				0.487 (1/2+)	2
111SB 3				0.851 (7/2+)	3
111SB 4				0.881 (3/2+)	4
111SB 5				1.148 (9/2+)	5
111SB 6				1.268 (7/2+)	6
111SB 7				1.399 (9/2+)	7
111SB 8				1.418 (11/2-)	8
111SB 9				1.577	9
111SB 10				1.712	10

111SB 11				1.880	11
111SB 12				1.922 (11/2+)	12
111SB 13				1.978 (11/2+)	13
111SB 14				2.027	14
111SB 15				2.120	15
111SB 16				2.161	16
111SB 17				2.220 (13/2+)	17
S-p =	2.284	(0.016)	-----		
111SB 18				2.357	18
111SB 19				2.407 (15/2+)	19
111SB 20				2.508 (13/2-)	20

111SB 21				2.561 (15/2-)	21
111SB 22				2.613	22
111SB 23				2.749 (15/2+)	23
111SB 24				2.766 (15/2+)	24
111SB 25				2.794 (17/2+)	25
111SB 26				2.844 (15/2+)	26
111SB 27				2.854 (17/2+)	27
111SB 28				3.074 (15/2-)	28
111SB 29				3.227 (17/2+)	29
111SB 30				3.352 (17/2-)	30

111SB 31				3.382 (15/2-)	31
111SB 32				3.395 (15/2-)	32
111SB 33				3.435 (19/2-)	33
111SB 34				3.475 (19/2-)	34
111SB 35				3.634 (19/2-)	35

111SB 36				3.673	(19/2+)	36
111SB 37				3.680	(19/2-)	37
111SB 38				3.734	(19/2+)	38
111SB 39				3.742	(21/2-)	39
111SB 40				3.782	(19/2+)	40

111SB 41				3.801	(19/2-)	41
111SB 42				3.833	(19/2-)	42
111SB 43				3.977	(19/2-)	43
111SB 44				4.159	(21/2-)	44
111SB 45				4.224	(21/2+)	45
111SB 46				4.362	(25/2-)	46
111SB 47				4.385	(23/2-)	47
111SB 48				4.435	(23/2-)	48
111SB 49				4.535	(23/2-)	49
111SB 50				4.634	(23/2+)	50

111SB 51				4.789	(25/2-)	51
111SB 52				4.859	(25/2-)	52
111SB 53				4.881	(25/2-)	53
111SB 54				4.922	(25/2-)	54
111SB 55				4.929	(25/2+)	55
111SB 56				5.056	(27/2-)	56
111SB 57				5.194	(27/2-)	57
111SB 58				5.237	(27/2+)	58
111SB 59				5.264	(-)	59
111SB 60				5.418	(29/2-)	60

111SB 61				5.507	(29/2-)	61
111SB 62				5.578	(29/2+)	62
111SB 63				5.602	(29/2-)	63
111SB 64				5.811	(31/2-)	64
111SB 65				5.915	(29/2-)	65
111SB 66				5.949	(31/2+)	66
111SB 67				6.022	(31/2-)	67
111SB 68				6.048	(29/2-)	68
111SB 69				6.250	(31/2-)	69
111SB 70				6.344	(33/2+)	70

111SB 71				6.644	(35/2-)	71
111SB 72				6.755	(35/2+)	72
111SB 73				7.205	(37/2+)	73
111SB 74				7.556	(39/2-)	74
111SB 75				7.687	(39/2+)	75
111SB 76				8.205	(41/2+)	76
111SB 77				8.551	(43/2-)	77

S-2p =	8.925	(0.010)	-----			
111SB 78				9.633	(47/2-)	78

S-p = 2.284 (0.016)-----
S-n = 11.458 (0.011)-----
S-2p = 8.925 (0.010)-----
S-2n = 20.728 (0.010)-----
S-alpha= -0.305 (0.013)-----

S+p = -4.020 (0.012)
S+n = -8.834 (0.020)
S+2p = -4.861 (0.012)
S+2n = -19.723 (0.019)
S+alpha = 2.074 (0.030)

gap p = -1.736 (0.020)
gap n = 2.625 (0.023)
gap 2p = 4.064 (0.015)
gap 2n = 1.005 (0.022)
gap alpha = 1.769 (0.033)