

^{116}Sb $Z = 51$ $N = 65$ adopted link ENSDF link

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

BE = 983.195 (0.005) MeV

Qbeta+ = 4.704 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
116SB 1	0.000	3+			1 15.8 M 8
116SB 2	0.094	1+			2 194 NS 4
116SB 3	0.103	2+			3 1. NS LT
116SB 4			0.383 8-		4 60.3 M 6
116SB 5	0.411	4+			5 1. NS LT
116SB 6			0.455 3-		6 2.1 NS 3
116SB 7	0.466	3+			7 1 NS LT
116SB 8				0.503 5(+)	8 1. NS LT
116SB 9			0.518 2-		9 1. NS LT
116SB 10	0.546	4+			10 1. NS LT
116SB 11	0.551	2+			11
116SB 12	0.575	2+			12 1. NS LT
116SB 13			0.613 4-		13 1. NS LT
116SB 14	0.654	3+			14 1. NS LT
116SB 15			0.682 6-		15
116SB 16	0.732	1+			16 1. NS LT
116SB 17	0.735	4+			17
116SB 18			0.809 7-		18
116SB 19	0.815	3+			19
116SB 20			0.821 5-		20 1. NS LT
116SB 21				0.841 (6+)	21 1. NS LT
116SB 22	0.882	3+			22
116SB 23	0.918	1+			23
116SB 24	0.948	4+			24
116SB 25				0.998 (3-,4-)	25
116SB 26				1.032 0+,1+	26
116SB 27				1.038 (4+,5+)	27
116SB 28				1.045 (4)-	28
116SB 29				1.065 (5)+	29
116SB 30				1.077 (5,3)+	30
116SB 31				1.088 4+,3+,2+	31
116SB 32				1.096 (2,3,4)	32
116SB 33	1.122	1+ TO 5+			33
116SB 34				1.127 (2)	34
116SB 35			1.135 9-		35
116SB 36	1.139	4+			36
116SB 37				1.155 (6,7)-	37

116SB	38	1.158	1+					38
116SB	39	1.159	7+					39
116SB	40					1.164		40

116SB	41					1.200		41
116SB	42					1.208	(4-,5-)	42
116SB	43					1.212	(4,3)+	43
116SB	44					1.223	3,2	44
116SB	45					1.226		45

S-alpha=	1.257 (0.007)							
116SB	46					1.268	(6,7)-	46
116SB	47			1.289	6-			47
116SB	48					1.307	(6,7,8)-	48
116SB	49					1.312	(-)	49
116SB	50					1.337	2,3	50

116SB	51			1.351	7-			51
116SB	52					1.386	1,2,3	52
116SB	53					1.387	(4,5,6)+	53
116SB	54					1.408	(3,4)	54
116SB	55					1.426	(1,2,3)	55
116SB	56					1.436		56
116SB	57			1.451	8-			57
116SB	58					1.473	(5 TO 9)-	58
116SB	59					1.481	(1 TO 4)	59
116SB	60					1.483	(2 TO 5)-	60

116SB	61					1.505	(6,7,8)-	61
116SB	62					1.570	(8+)	62
116SB	63					1.626	(8+)	63
116SB	64					1.658		64
116SB	65			1.666	9-			65
116SB	66					1.685		66
116SB	67					1.704		67
116SB	68	1.782	11+					68
116SB	69					1.885		69
116SB	70					1.949	(9+)	70

116SB	71					1.961	(9+)	71
116SB	72			1.984	10-			72
116SB	73					2.314	(10+)	73
116SB	74			2.336	11-			74
116SB	75					2.365	(10+)	75
116SB	76					2.384		76
116SB	77					2.688	(11+)	77
116SB	78			2.718	12-			78
116SB	79					2.788	(11+)	79
116SB	80	2.966	13+					80

116SB	81					3.005		81

116SB	82				3.129	13-				82
116SB	83		3.207	14+						83 1.3 NS
116SB	84		3.433	15+						84
116SB	85				3.573	14-				85
116SB	86							3.940		86
116SB	87							4.031		87
S-p	=		4.077 (0.005)		-----					
116SB	88							4.246		88

S-p = 4.077 (0.005)-----
S-n = 7.890 (0.017)-----
S-2p = 12.830 (0.005)-----
S-2n = 18.468 (0.020)-----
S-alpha= 1.257 (0.007)-----

S+p = -5.562 (0.014)
S+n = -9.889 (0.010)
S+2p = -8.727 (0.020)
S+2n = -17.317 (0.006)
S+alpha = 0.650 (0.016)

gap p = -1.485 (0.015)
gap n = -1.999 (0.020)
gap 2p = 4.103 (0.021)
gap 2n = 1.151 (0.021)
gap alpha = 1.907 (0.017)