

^{127}Sn $Z = 50$ $N = 77$ adopted link ENSDF link

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

BE = 1069.410 (0.009) MeV

Qbeta- = 3.229 (0.011) MeV

	Energy T	J+	J-	J-other	T1/2
127SN 1			0.000	11/2-	1 2.10 H 4
127SN 2	0.005	3/2+			2 4.13 M 3
127SN 3				0.258 (1/2)+	3
127SN 4				0.646 (9/2)-	4
127SN 5				0.810 (5/2+)	5
127SN 6				0.954 (1/2,3/2)	6
127SN 7				0.964 (7/2-)	7
127SN 8				1.054 (7/2+)	8
127SN 9				1.091 (1/2,3/2)	9
127SN 10				1.095 (15/2-)	10
127SN 11				1.233 (3/2+)	11
127SN 12				1.243 (13/2-)	12
127SN 13				1.332 (5/2+)	13
127SN 14				1.502	14
127SN 15				1.556 (7/2-,9/2+)	15
127SN 16				1.603 (7/2+)	16
127SN 17				1.618 (7/2,9/2+)	17
127SN 18				1.625	18
127SN 19				1.703 (7/2+)	19
127SN 20				1.810 (15/2+)	20
127SN 21				1.820 (1/2,3/2)	21
127SN 22				1.827 (19/2+)	22 4.52 US 15
127SN 23				1.910 (7/2+)	23
127SN 24				1.916 (19/2-)	24
127SN 25				1.931 (23/2+)	25 1.19 US 13
127SN 26				2.024 (7/2+)	26
127SN 27				2.043 (7/2+)	27
127SN 28				2.046 (19/2)	28
127SN 29				2.047 (19/2-)	29
127SN 30				2.083	30
127SN 31				2.166 (19/2)	31
127SN 32				2.232 (21/2+)	32
127SN 33				2.260 (1/2,3/2)	33
127SN 34				2.312 (19/2,17/2)	34
127SN 35				2.410 (23/2-)	35
127SN 36				2.443 (7/2,9/2)	36
127SN 37				2.465 (7/2,9/2)	37

127SN	38				2.515	(7/2,9/2)	38		
127SN	39				2.552	(27/2-)	39	0.25	US 3
127SN	40				2.631	(19/2,21/2)	40		

127SN	41				2.734		41		
127SN	42				2.791	(7/2,9/2)	42		
127SN	43				2.822	(7/2,9/2)	43		
127SN	44				2.886	(1/2,3/2)	44		
127SN	45				3.288		45		
127SN	46				3.333	(3/2)	46		
127SN	47				3.398	(1/2,3/2)	47		
127SN	48				3.565	(3/2)	48		
127SN	49				3.605	(19/2-)	49		
127SN	50				3.647	(19/2,21/2)	50		

127SN	51				3.861		51		
127SN	52				3.899		52		

S-p = 12.949 (0.010)-----
 S-n = 5.526 (0.014)-----
 S-2p = 24.699 (0.010)-----
 S-2n = 13.719 (0.009)-----
 S-alpha= 8.480 (0.010)-----

S+p = -8.449 (0.021)
 S+n = -7.963 (0.020)
 S+2p = -18.113 (0.009)
 S+2n = -13.264 (0.020)
 S+alpha = -4.166 (0.009)

gap p = 4.500 (0.023)
 gap n = -2.437 (0.024)
 gap 2p = 6.586 (0.013)
 gap 2n = 0.455 (0.022)
 gap alpha = 4.314 (0.013)