

$^{107}\text{Sn}$        $Z = 50$        $N = 57$       adopted link      ENSDF link

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

BE = 903.026 ( 0.005) MeV

Qbeta+ = 5.054 ( 0.011) MeV

	Energy T	J+	J-	J-other	T1/2
107SN 1				0.000 (5/2+)	1 2.90 M 5
107SN 2				0.151 (7/2+)	2
S-alpha=	0.285 ( 0.006)-----				
107SN 3				0.704 (3/2+)	3
107SN 4				0.818 (5/2+)	4
107SN 5				0.970 (3/2+,5/2+)	5
107SN 6				1.222 (9/2+)	6
107SN 7				1.280 (3/2,5/2,7/2)+	7
107SN 8				1.349 (11/2+)	8
107SN 9				1.371 (9/2+)	9
107SN 10				1.454 (3/2+)	10
107SN 11				1.620	11
107SN 12				1.667 (11/2-)	12 28 PS 11
107SN 13				1.799 (13/2+)	13
107SN 14				1.942 (13/2+)	14
107SN 15				2.010 (13/2+)	15
107SN 16				2.046	16
107SN 17				2.066 (15/2+)	17
107SN 18				2.144 (15/2+)	18
107SN 19				2.208 (17/2+)	19 0.25 NS 4
107SN 20				2.731 (15/2-)	20
107SN 21				2.803	21
107SN 22				3.099 (19/2+)	22
107SN 23				3.460 (21/2+)	23
107SN 24				3.617 (19/2-)	24
107SN 25				3.826 (21/2-)	25
107SN 26				4.208 (23/2+)	26
107SN 27				4.261 (23/2-)	27
107SN 28				4.553 (25/2+)	28
107SN 29				4.631 (23/2-)	29
107SN 30				4.979 (25/2-)	30
S-p =	5.193 ( 0.013)-----				
107SN 31				5.196 (27/2-)	31 13 PS 4
107SN 32				6.045 (31/2-)	32
S-p =	5.193 ( 0.013)-----				

S-n = 9.230 ( 0.007)-----  
S-2p = 8.756 ( 0.005)-----  
S-2n = 21.317 ( 0.007)-----  
S-alpha= 0.285 ( 0.006)-----

S+p = -1.222 ( 0.008)  
S+n = -11.629 ( 0.008)  
S+2p = -3.781 ( 0.007)  
S+2n = -20.261 ( 0.010)  
S+alpha = 2.500 ( 0.008)

gap p = 3.971 ( 0.015)  
gap n = -2.399 ( 0.011)  
gap 2p = 4.975 ( 0.009)  
gap 2n = 1.056 ( 0.012)  
gap alpha = 2.785 ( 0.010)