

$^{129}\text{Sn}$        $Z = 50$        $N = 79$       adopted link      ENSDF link

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

BE = 1082.673 ( 0.017) MeV

Qbeta- = 4.039 ( 0.027) MeV

	Energy T	J+	J-	J-other	T1/2	
129SN 1	0.000	3/2+			1	2.23 M 4
129SN 2			0.035	11/2-	2	6.9 M 1
129SN 3				0.315 (1/2)+	3	
129SN 4				0.764 (9/2-)	4	
129SN 5				0.769 (5/2+)	5	
129SN 6				1.044 (7/2-)	6	
129SN 7				1.047 (7/2+)	7	
129SN 8				1.054 (7/2+)	8	
129SN 9				1.171 (15/2-)	9	
129SN 10				1.223 (3/2+)	10	
129SN 11				1.289 (3/2+)	11	
129SN 12				1.359 (13/2-)	12	
129SN 13				1.456 (5/2+)	13	
129SN 14				1.534 (7/2-,9/2+)	14	
129SN 15				1.613 (1/2:7/2+)	15	
129SN 16				1.701 (7/2-)	16	
129SN 17				1.742 (15/2+)	17	
129SN 18				1.762 (19/2+)	18	3.40 US 13
129SN 19				1.803 (23/2+)	19	2.22 US 14
129SN 20				1.854 (7/2,9/2)	20	
129SN 21				1.865 (7/2+)	21	
129SN 22				1.906 (7/2)	22	
129SN 23				2.118 (7/2+)	23	
129SN 24				2.276 (21/2)	24	
129SN 25				2.408 (23/2-)	25	
129SN 26				2.553 (27/2-)	26	217 NS 19
129SN 27				2.791 (7/2,9/2+)	27	
129SN 28				2.836 (7/2+,9/2+)	28	
129SN 29				2.982 (7/2+)	29	
129SN 30				3.079 (3/2-)	30	
129SN 31				3.140 (7/2+)	31	
129SN 32				3.394 (1/2,3/2)	32	
129SN 33				3.591 (3/2-)	33	
129SN 34				3.993 (21/2-)	34	

S-p = 13.689 ( 0.017)

S-n = 5.301 ( 0.025)-----  
S-2p = 26.427 ( 0.018)-----  
S-2n = 13.264 ( 0.020)-----  
S-alpha= 9.667 ( 0.018)-----

S+p = -8.984 ( 0.022)  
S+n = -7.613 ( 0.017)  
S+2p = -19.198 ( 0.017)  
S+2n = -12.817 ( 0.018)  
S+alpha = -4.771 ( 0.017)

gap p = 4.705 ( 0.028)  
gap n = -2.312 ( 0.030)  
gap 2p = 7.229 ( 0.025)  
gap 2n = 0.447 ( 0.026)  
gap alpha = 4.896 ( 0.025)