

^{127}Cs $Z = 55$ $N = 72$ adopted link ENSDF link

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

BE = 1068.268 (0.006) MeV

Qbeta+ = 2.081 (0.007) MeV

	Energy T	J+	J-	J-other	T1/2
127CS 1	0.000	1/2+			1 6.25 H 10
127CS 2				0.066 (5/2)+	2 24.88 NS 30
127CS 3				0.139 (3/2)+	3 120 PS 20
127CS 4	0.181	3/2+			4 60 PS LE
127CS 5				0.247 (5/2+)	5
127CS 6				0.273 (7/2+)	6
127CS 7				0.452 (11/2)-	7 55 US 3
127CS 8				0.454 (9/2+)	8
127CS 9				0.568 1/2,3/2	9
127CS 10				0.578	10
127CS 11				0.590	11
127CS 12				0.622	12
127CS 13				0.686 (9/2+)	13
127CS 14				0.707 (11/2+)	14 8 NS LT
127CS 15				0.713 1/2,3/2	15
S-alpha=	0.722 (0.007)				
127CS 16				0.854 (9/2+)	16
127CS 17				0.867 (15/2-)	17 8 NS LT
127CS 18				0.873 1/2,3/2	18
127CS 19				1.043 (13/2+)	19
127CS 20				1.131 (11/2+)	20 8 NS LT
127CS 21				1.151	21
127CS 22				1.201 1/2,3/2	22
127CS 23				1.289 1/2,3/2	23
127CS 24				1.316 (13/2+)	24
127CS 25				1.324 (15/2+)	25 8 NS LT
127CS 26				1.442 (13/2+)	26 8 NS LT
127CS 27				1.458 (19/2-)	27 8 NS LT
127CS 28				1.492 (17/2-, 19/2-)	28 8 NS LT
127CS 29				1.566 1/2,3/2	29
127CS 30				1.618	30
127CS 31				1.788 (15/2+)	31
127CS 32				1.802 (17/2+)	32
127CS 33				1.956 (19/2-)	33 8 NS LT
127CS 34				1.982 1/2,3/2	34
127CS 35				2.090 1/2,3/2	35
127CS 36				2.094 (13/2-)	36

127CS	37				2.097	(19/2)+	37	8 NS	LT
127CS	38				2.105	(17/2+)	38		
127CS	39				2.118	(21/2-)	39	8 NS	LT
127CS	40				2.144	1/2,3/2	40		

127CS	41				2.167	(17/2+)	41		
127CS	42				2.203	(15/2-)	42		
127CS	43				2.239	1/2,3/2	43		
127CS	44				2.256	1/2,3/2	44		
127CS	45				2.258	(23/2-)	45	8 NS	LT
127CS	46				2.321	1/2+,3/2+	46		
127CS	47				2.440	(17/2-)	47		
127CS	48				2.578	(19/2+)	48		
127CS	49				2.639	(23/2-)	49		
127CS	50				2.691	(21/2+)	50		

127CS	51				2.697	(19/2-)	51		
127CS	52				2.748	(19/2+)	52		
127CS	53				2.898	(21/2+)	53		
127CS	54				2.936	(25/2-)	54	8 NS	LT
127CS	55				2.960		55		
127CS	56				3.000	(23/2+)	56	8 NS	LT
127CS	57				3.002	(23/2+)	57	8 NS	LT
127CS	58				3.008	(21/2-)	58		
127CS	59				3.018	(21/2+)	59		
127CS	60				3.061	(23/2+)	60		

127CS	61				3.062		61		
127CS	62				3.157	(27/2-)	62	8 NS	LT
127CS	63				3.262	(25/2+)	63	8 NS	LT
127CS	64				3.354	(25/2+)	64		
127CS	65				3.366	(27/2-)	65		
127CS	66				3.370		66		
127CS	67				3.564	(27/2+)	67		
127CS	68				3.646	(27/2+)	68		
127CS	69				3.647		69		
127CS	70				3.766		70		

127CS	71				3.816	(29/2-)	71		
127CS	72				3.914	(29/2+)	72		
127CS	73				3.984		73		
127CS	74				4.037		74		
127CS	75				4.101	(31/2-)	75		
127CS	76				4.175		76		
127CS	77				4.305	(31/2+)	77		

S-p	=	4.383	(0.006)					
127CS	78				4.392		78		
127CS	79				4.640	(33/2-)	79		
127CS	80				4.724		80		

127CS	81				4.954	(35/2-)	81
127CS	82				5.179		82
127CS	83				5.187		83
127CS	84				5.535		84
127CS	85				5.865		85

S-p = 4.383 (0.006)-----
 S-n = 9.961 (0.012)-----
 S-2p = 11.982 (0.006)-----
 S-2n = 18.293 (0.010)-----
 S-alpha= 0.722 (0.007)-----

S+p = -6.418 (0.006)
 S+n = -7.763 (0.008)
 S+2p = -9.661 (0.022)
 S+2n = -17.402 (0.007)
 S+alpha = 0.046 (0.028)

gap p = -2.035 (0.008)
 gap n = 2.198 (0.014)
 gap 2p = 2.321 (0.023)
 gap 2n = 0.891 (0.012)
 gap alpha = 0.768 (0.029)