

^{126}Ce $Z = 58$ $N = 68$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1042.430 (0.028) MeV

Qbeta+ = 4.153 (0.095) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-1.363	(0.040)	-----		
126CE 1	0.000	0+			1 51.0 S 3
126CE 2	0.170	2+			2 0.59 NS 10
126CE 3	0.519	4+			3 15.2 PS 14
126CE 4				0.954 (2+)	4
126CE 5	1.015	6+			5 6 PS 2
126CE 6				1.155 (3+)	6
126CE 7				1.337 (4+)	7
126CE 8	1.625	8+			8 2 PS 1
126CE 9				1.877 (4+)	9
126CE 10				1.882 (7-)	10

126CE 11				2.031 (6+)	11
126CE 12				2.199 (9-)	12 8 PS 3
126CE 13				2.209 (6+)	13
126CE 14				2.231	14
126CE 15				2.313 (10+)	15
126CE 16				2.460	16
126CE 17				2.629 (11-)	17 4 PS 2
126CE 18				2.658 (8+)	18
126CE 19				2.841	19
126CE 20				2.991 (12+)	20

126CE 21				3.148 (13-)	21
126CE 22				3.200 (10+)	22
126CE 23				3.284 (12+)	23
126CE 24				3.354	24
126CE 25				3.598 (14+)	25
126CE 26				3.752 (15-)	26
126CE 27				3.837 (12+)	27
126CE 28				3.974	28
126CE 29				4.035 (14+)	29
126CE 30				4.288 (16+)	30

S-p	= 4.350	(0.038)	-----		
126CE 31				4.399 (14+)	31
126CE 32				4.441 (17-)	32
126CE 33				4.891 (16+)	33
126CE 34				5.065 (16+)	34
126CE 35				5.097 (18+)	35

126CE	36			5.207	(19-)	36
126CE	37			5.366	(18+)	37
126CE	38			5.764	(18+)	38
126CE	39			5.850	(18+)	39
126CE	40			6.011	(20+)	40

126CE	41			6.040	(21-)	41
S-2p	=	6.309	(0.031)	-----		
126CE	42			6.553	(20+)	42
126CE	43			6.936	(23-)	43
126CE	44			6.992	(22+)	44
126CE	45			7.458	(22+)	45
126CE	46			7.914	(25-)	46
126CE	47			8.027	(24+)	47
126CE	48			8.483	(24+)	48
126CE	49			8.991	(27-)	49
126CE	50			9.137	(26+)	50

126CE	51			9.626	(26+)	51
126CE	52			10.141	(29-)	52
126CE	53			10.336	(28+)	53
126CE	54			10.875	(28+)	54
126CE	55			11.314	(31-)	55
126CE	56			11.626	(30+)	56
126CE	57			12.527	(33-)	57
126CE	58			13.001	(32+)	58
126CE	59			13.806	(35-)	59
126CE	60			14.465	(34+)	60

126CE	61			15.161	(37-)	61
126CE	62			16.016	(36+)	62
126CE	63			16.603	(39-)	63

S-p	=	4.350	(0.038)	-----		
S-n	=	0.000	(0.000)	-----		
S-2p	=	6.309	(0.031)	-----		
S-2n	=	0.000	(0.000)	-----		
S-alpha	=	-1.363	(0.040)	-----		
S+p	=	0.000	(0.000)			
S+n	=	-9.230	(0.040)			
S+2p	=	0.000	(0.000)			
S+2n	=	-20.856	(0.040)			
S+alpha	=	1.799	(0.040)			
gap p	=	0.000	(0.000)			
gap n	=	0.000	(0.000)			
gap 2p	=	0.000	(0.000)			
gap 2n	=	0.000	(0.000)			

gap alpha = 0.436 (0.056)