

^{148}Ce $Z = 58$ $N = 90$ [link to full NNDC output](#)

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

BE = 1219.577 (0.011) MeV

Qbeta- = 2.137 (0.019) MeV

	Energy T	J+	J-	J-other	T1/2
148CE 1	0.000	0+			1 56.8 S 3
148CE 2	0.158	2+			2 1.01 NS 6
148CE 3	0.453	4+			3 1.2 NS LT
148CE 4				0.760 (1-)	4
148CE 5	0.770	0+			5
148CE 6	0.840	6+			6
148CE 7				0.841 (3-)	7
148CE 8				0.936 (2+)	8
148CE 9				0.990 (2+)	9

S-alpha=	1.056 (0.013)				
148CE 10				1.117 (3+)	10

148CE 11				1.224 (4+)	11
148CE 12	1.290	8+			12
148CE 13				1.351 (7-)	13
148CE 14				1.369	14
148CE 15				1.416	15
148CE 16				1.423 (5+)	16
148CE 17				1.457	17
148CE 18				1.486 (4-)	18
148CE 19				1.497 (2+,1)	19
148CE 20				1.555	20

148CE 21				1.559	21
148CE 22				1.584	22
148CE 23				1.590 (2+,1)	23
148CE 24				1.623	24
148CE 25				1.626	25
148CE 26				1.682 (6-)	26
148CE 27				1.728	27
148CE 28				1.754 (9-)	28
148CE 29				1.787 (7+)	29
148CE 30				1.789 (7)	30

148CE 31	1.791	10+			31
148CE 32				1.891 (2+,1)	32
148CE 33				1.928	33
148CE 34				1.954 (8-)	34
148CE 35				2.095 (9)	35
148CE 36				2.144	36

148CE 37					2.154	(2+,1)	37
148CE 38					2.192		38
148CE 39					2.199	(9+)	39
148CE 40					2.225	(11-)	40

148CE 41					2.252		41
148CE 42					2.307	(10-)	42
148CE 43		2.328	12+				43
148CE 44					2.487	(11)	44
148CE 45					2.550	(2+,1)	45
148CE 46					2.674	(11+)	46
148CE 47					2.751	(12-)	47
148CE 48					2.752	(13-)	48
148CE 49		2.888	14+				49
148CE 50					2.969	(13)	50

148CE 51					3.287	(14-)	51
148CE 52					3.326	(15-)	52
148CE 53		3.464	16+				53
148CE 54					3.899	(16-)	54
148CE 55					3.944	(17-)	55
148CE 56		4.066	18+				56
148CE 57		4.685	20+				57
148CE 58		5.311	22+				58

S-p = 11.009 (0.016)-----
S-n = 6.456 (0.014)-----
S-2p = 20.029 (0.024)-----
S-2n = 10.906 (0.020)-----
S-alpha= 1.056 (0.013)-----

S+p = -7.930 (0.015)
S+n = -4.343 (0.015)
S+2p = -17.859 (0.011)
S+2n = -10.591 (0.016)
S+alpha = -2.176 (0.027)

gap p = 3.079 (0.022)
gap n = 2.113 (0.021)
gap 2p = 2.170 (0.026)
gap 2n = 0.315 (0.026)
gap alpha = -1.120 (0.030)