

$^{148}\text{Ce}$        $Z = 58$        $N = 90$       adopted link      ENSDF link

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

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
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S-alpha=	1.056 ( 0.013)				
148CE 10				1.117 (3+)	10
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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
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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
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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
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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
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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 ( 0.015)-----  
S-n = 6.456 ( 0.014)-----  
S-2p = 20.110 ( 0.011)-----  
S-2n = 10.915 ( 0.018)-----  
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 = 2.251 ( 0.016)  
gap 2n = 0.324 ( 0.025)  
gap alpha = -1.120 ( 0.030)