

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

Based on ensdf\_240402 (Apr 2024), 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
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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
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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)