

^{141}Ce $Z = 58$ $N = 83$ adopted link ENSDF link

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

BE = 1178.111 (0.001) MeV

Qbeta- = 0.583 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
141CE 1			0.000	7/2-	1 32.511 D 13
S-alpha=	0.134 (0.001)				
141CE 2			0.662	3/2-	2
141CE 3			1.137	1/2-	3
141CE 4			1.355	9/2-	4
141CE 5	1.369	13/2+			5 5.3 NS 3
141CE 6				1.377 (9/2-,11/2-)	6
141CE 7			1.497	5/2-	7
141CE 8				1.626 (3/2)+	8
141CE 9			1.693	11/2-	9
141CE 10			1.739	7/2-	10
141CE 11	1.785	1/2+			11
141CE 12			1.809	3/2-	12
141CE 13			1.813	5/2-	13
141CE 14				1.915 11/2-,9/2-	14
141CE 15	1.942	1/2+			15
141CE 16				1.944	16
141CE 17				1.962 15/2(+)	17
141CE 18				1.994 (1/2-)	18
141CE 19				2.030	19
141CE 20				2.044 11/2-,9/2-	20
141CE 21				2.049	21
141CE 22				2.115 (5/2)-	22
141CE 23				2.165 11/2-,9/2-	23
141CE 24			2.166	3/2-	24
141CE 25			2.171	9/2-	25
141CE 26			2.174	5/2-	26
141CE 27				2.189 (5/2-,7/2-)	27
141CE 28			2.190	3/2-	28
141CE 29				2.207 (7/2+)	29
141CE 30				2.207 17/2(+)	30
141CE 31				2.243 (7/2+,9/2+)	31
141CE 32				2.263 (7/2+,9/2+)	32
141CE 33				2.267 (5/2+)	33
141CE 34				2.273 (19/2)	34 2.2 NS 4
141CE 35				2.292 (+)	35
141CE 36			2.329	7/2-	36

141CE 37			2.336	3/2-			37
141CE 38					2.403	3/2+,5/2+	38
141CE 39					2.406	(5/2-)	39
141CE 40			2.411	1/2-			40

141CE 41			2.426	3/2-			41
141CE 42					2.450	(1/2-)	42
141CE 43					2.450	(5/2-,7/2-)	43
141CE 44					2.458	3/2+,5/2+	44
141CE 45					2.507	(3/2+,5/2+)	45
141CE 46					2.523	1/2-,3/2-	46
141CE 47					2.531	(9/2-,11/2-)	47
141CE 48					2.543		48
141CE 49					2.555		49
141CE 50					2.583		50

141CE 51					2.611	(1/2-,3/2-)	51
141CE 52					2.634	5/2-,7/2-	52
141CE 53					2.649	3/2+,5/2+	53
141CE 54					2.671		54
141CE 55					2.800		55
141CE 56	2.841	1/2+					56
141CE 57					2.886	3/2+,5/2+	57
141CE 58					2.899	(3/2+,5/2+)	58
141CE 59					2.899	13/2+,11/2+	59
141CE 60	2.987	1/2+					60

141CE 61					3.012		61
141CE 62					3.055	3/2+,5/2+	62
141CE 63					3.070	5/2-,7/2-	63
141CE 64					3.070	1/2-,3/2-	64
141CE 65					3.071	3/2+,5/2+	65
141CE 66					3.109		66
141CE 67					3.114	11/2-,9/2-	67
141CE 68					3.159	(1/2-,3/2-)	68
141CE 69					3.175		69
141CE 70					3.203		70

141CE 71					3.210	3/2+,5/2+	71
141CE 72					3.235		72
141CE 73					3.265		73
141CE 74					3.297	(1/2-,3/2-)	74
141CE 75					3.319		75
141CE 76					3.333	5/2-,7/2-	76
141CE 77	3.351	1/2+					77
141CE 78					3.351	(3/2+,5/2+)	78
141CE 79					3.408	(3/2+,5/2+)	79
141CE 80					3.409	(11/2-,9/2-)	80

141CE 81	3.413	1/2+					81

141CE	82				3.449		82
141CE	83				3.486	(5/2-,7/2-)	83
141CE	84				3.523	(7/2+,9/2+)	84
141CE	85				3.578	(7/2+,9/2+)	85
141CE	86				3.609	(9/2+,7/2+)	86
141CE	87				3.673	(3/2+,5/2+)	87
141CE	88				3.684	(7/2+,9/2+)	88
141CE	89				3.704		89

S-p = 8.408 (0.001)-----
 S-n = 5.428 (0.002)-----
 S-2p = 15.095 (0.001)-----
 S-2n = 14.616 (0.002)-----
 S-alpha= 0.134 (0.001)-----

S+p = -5.644 (0.002)
 S+n = -7.173 (0.003)
 S+2p = -13.149 (0.002)
 S+2n = -12.318 (0.003)
 S+alpha = 1.574 (0.002)

gap p = 2.764 (0.002)
 gap n = -1.745 (0.003)
 gap 2p = 1.946 (0.002)
 gap 2n = 2.298 (0.004)
 gap alpha = 1.708 (0.002)