

^{143}Ce $Z = 58$ $N = 85$ adopted link ENSDF link

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

BE = 1190.429 (0.002) MeV

Qbeta- = 1.462 (0.003) MeV

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

S-alpha=	-0.883 (0.002)				
143CE 1			0.000 3/2-		1 33.039 H 6
143CE 2			0.019 7/2-		2
143CE 3			0.042 5/2-		3
143CE 4				0.632 (1/2-)	4
143CE 5				0.640	5
143CE 6			0.663 9/2-		6
143CE 7			0.808 3/2-		7
143CE 8				0.817	8
143CE 9				0.862 (1/2-)	9
143CE 10				1.095	10

143CE 11				1.117	11
143CE 12			1.154 3/2-		12
143CE 13				1.165 (>3/2)	13
143CE 14				1.168 (>3/2)	14
143CE 15				1.173 3/2-, (1/2)-	15
143CE 16				1.195 (5/2)-	16
143CE 17			1.220 9/2-		17
143CE 18				1.298 (5/2)-	18
143CE 19				1.506 5/2-, 7/2-	19
143CE 20				1.542	20

143CE 21				1.558 5/2-, 7/2-	21
143CE 22				1.572 1/2-, 3/2-	22
143CE 23				1.599	23
143CE 24				1.620 3/2, (1/2-)	24
143CE 25				1.629 3/2, 1/2	25
143CE 26				1.635 5/2-, 7/2-	26
143CE 27				1.677	27
143CE 28				1.714 5/2-, 7/2-	28
143CE 29				1.727	29
143CE 30				1.739 1/2-, 3/2-	30

143CE 31				1.810 5/2-, 7/2-	31
143CE 32				1.835 (1/2)-	32
143CE 33				1.857	33
143CE 34				1.906 (7/2)-	34
143CE 35				1.913 (1/2)-	35
143CE 36			1.945 3/2-		36

143CE	37				1.980		37
143CE	38				1.990		38
143CE	39				1.993	(3/2)-	39
143CE	40				2.027	(1/2-)	40

143CE	41				2.040		41
143CE	42				2.057		42
143CE	43		2.062	3/2-			43
143CE	44				2.065		44
143CE	45				2.112		45
143CE	46				2.143	1/2-, 3/2-	46
143CE	47				2.160	1/2-, 3/2-	47
143CE	48				2.202	1/2, 3/2	48
143CE	49				2.216	(3/2)-	49
143CE	50				2.232	(3/2)-	50

143CE	51				2.255	1/2-, 3/2-	51
143CE	52				2.255		52
143CE	53				2.273	1/2-, 3/2	53
143CE	54				2.307	(5/2-, 7/2-)	54
143CE	55				2.314	3/2-, 1/2-	55
143CE	56				2.348		56
143CE	57				2.404		57
143CE	58				2.481	5/2-, 7/2-	58
143CE	59				2.489	3/2, 1/2	59
143CE	60				2.517	5/2-, 7/2-	60

143CE	61				2.519		61
143CE	62				2.537	(3/2, 1/2)	62
143CE	63				2.552		63
143CE	64				2.571		64
143CE	65				2.571	1/2-, 3/2-	65
143CE	66				2.596		66
143CE	67				2.611		67
143CE	68				2.630		68
143CE	69				2.644		69
143CE	70				2.660		70

143CE	71				2.695		71
143CE	72				2.712		72
143CE	73				2.729		73
143CE	74				2.742	1/2-, 3/2-	74
143CE	75				2.775		75
143CE	76				2.816		76
143CE	77				2.825		77

S-n	=	5.145	(0.003)	-----			
143CE	78		5.145	1/2+			78

S-p	=	8.871	(0.007)	-----			

S-n = 5.145 (0.003)-----
S-2p = 16.452 (0.006)-----
S-2n = 12.318 (0.003)-----
S-alpha= -0.883 (0.002)-----

S+p = -6.433 (0.004)
S+n = -6.897 (0.004)
S+2p = -14.404 (0.003)
S+2n = -11.603 (0.034)
S+alpha = 1.035 (0.003)

gap p = 2.438 (0.008)
gap n = -1.752 (0.005)
gap 2p = 2.048 (0.006)
gap 2n = 0.715 (0.034)
gap alpha = 0.152 (0.004)