

^{133}Cs $Z = 55$ $N = 78$ adopted link ENSDF link

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

BE = 1118.527 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
133CS 1	0.000	7/2+			1 STABLE
133CS 2	0.081	5/2+			2 6.283 NS 14
133CS 3	0.161	5/2+			3 172 PS 4
133CS 4	0.384	3/2+			4 44 PS 11
133CS 5	0.437	1/2+			5 150 PS LE
133CS 6	0.633	11/2+			6 5.3 PS 4
133CS 7				0.640 (3/2)+	7 0.76 PS 14
133CS 8	0.706	9/2+			8
133CS 9				0.729	9
133CS 10				0.768 (9/2)+	10 2.0 PS 4
133CS 11				0.789	11
133CS 12				0.819 (5/2,7/2,9/2+)	12 1.0 PS 3
133CS 13				0.872 (7/2)+	13 1.2 PS 3
133CS 14				0.916 (5/2,7/2,9/2+)	14 2.3 PS +10-5
133CS 15				0.942	15
133CS 16				1.071 (11/2-)	16
133CS 17				1.089 (3/2+,5/2,7/2+)	17
133CS 18				1.173 (3/2+,5/2,7/2+)	18
133CS 19				1.219	19
133CS 20	1.430	15/2+			20
133CS 21				1.442	21
133CS 22				1.510	22
133CS 23				1.604 (15/2-)	23
133CS 24				1.675 (5/2+,7/2+)	24
133CS 25				1.692	25
133CS 26				1.745 (15/2-)	26
133CS 27				1.881 (3/2+,5/2,7/2+)	27
133CS 28				1.919	28
133CS 29				1.923 (19/2)	29
133CS 30				1.952 (17/2)	30
S-alpha=	1.989 (0.003)				
133CS 31				2.001	31
133CS 32				2.036 (3/2+,5/2,7/2+)	32
133CS 33				2.156 (5/2,7/2,9/2)	33 1.34E-3 EV22
133CS 34	2.295	19/2+			34
133CS 35				2.321 (5/2)	35 8.4E-4 EV 19
133CS 36				2.415 (5/2,7/2,9/2)	36 2.7E-3 EV 4
133CS 37				2.438 (5/2,7/2,9/2)	37 1.5E-3 EV 3

133CS	38			2.462	(5/2,7/2,9/2)	38	1.10E-3	EV22
133CS	39			2.528	(21/2)	39		
133CS	40			2.643	(23/2)	40		

133CS	41			2.645	(5/2,7/2,9/2)	41	5.1E-3	EV 4
133CS	42			2.672	(5/2,7/2,9/2)	42	2.4E-3	EV 3
133CS	43			2.722	(5/2,7/2,9/2)	43	2.4E-3	EV 5
133CS	44			2.744	(5/2,7/2,9/2)	44	3.5E-3	EV 5
133CS	45			2.759	(5/2,7/2,9/2)	45	3.1E-3	EV 4
133CS	46			2.815	(5/2,7/2,9/2)	46	1.0E-3	EV 3
133CS	47			2.834	(25/2)	47		
133CS	48			2.858	(5/2,7/2,9/2)	48	2.8E-3	EV 5
133CS	49			2.873	(5/2,7/2,9/2)	49	2.6E-3	EV 3
133CS	50			2.909	(5/2,7/2,9/2)	50	4.9E-3	EV 6

133CS	51			2.944	(5/2,7/2,9/2)	51	2.3E-3	EV 3
133CS	52			3.039	(5/2,7/2,9/2)	52	9.7E-4	EV 24
133CS	53			3.296	(5/2,7/2,9/2)	53	1.8E-3	EV 6
133CS	54			3.322	(5/2,7/2,9/2)	54	1.4E-3	EV 4
133CS	55			3.422	(5/2,7/2,9/2)	55	1.7E-3	EV 6
133CS	56			3.517	(5/2,7/2,9/2)	56	1.4E-3	EV 5
133CS	57			3.526	(5/2,7/2,9/2)	57	3.3E-3	EV 5
133CS	58			3.672	(5/2,7/2,9/2)	58	3.2E-3	EV 7

S-p = 6.081 (0.000)-----
S-n = 8.990 (0.001)-----
S-2p = 15.206 (0.001)-----
S-2n = 16.158 (0.000)-----
S-alpha= 1.989 (0.003)-----

S+p = -8.168 (0.000)
S+n = -6.892 (0.000)
S+2p = -13.151 (0.009)
S+2n = -15.654 (0.000)
S+alpha = -1.495 (0.002)

gap p = -2.087 (0.000)
gap n = 2.098 (0.001)
gap 2p = 2.056 (0.009)
gap 2n = 0.504 (0.000)
gap alpha = 0.494 (0.004)