^{136}Ce $Z = 58$ $N = 78$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1138.832 (0.000) MeV

	Energy	T	J+		J-		J-other		T1/2	
136CE 1	0.000		0+					1	STABLE	
S-alpha= 0.499 (0.001)										
136CE 2	0.552		2+					2	6.7 PS	8
136CE 3							1.076	3		
136CE 4	1.092		2+					4	4.4 PS	7
136CE 5	1.314		4+					5	0.94 PS	17
136CE 6	1.553		3+					6		
136CE 7				1.978		5-		7	496 PS	23
136CE 8				1.982		(3-)		8		
136CE 9	2.067		2+					9	0.151 PS	16
136CE 10	2.155		2+					10	0.039 PS	5
136CE 11	2.214		6+					11	5 NS	LE
136CE 12	2.274		(2+)					12	0.305 PS	25
136CE 13				2.307		7-		13	270 PS	24
136CE 14	2.366		6+					14	5 NS	LE
136CE 15				2.425		(6-)		15	3 NS	LE
136CE 16	2.451		(2+)					16	0.17 PS	3
136CE 17							2.517 (2+,3)	17		
136CE 18	2.595		(2+)					18		
136CE 19	2.682		(2+)					19		
136CE 20							2.793 (1,2+)	20		
136CE 21							2.828 (1,2,3)	21		
136CE 22							2.866 (1,2+)	22		
136CE 23							2.904 (1,2,3)	23		
136CE 24							2.932 (1,2+)	24		
136CE 25	2.942		(2+)					25		
136CE 26	2.955		(8+)					26		
136CE 27	2.989		8+					27		
136CE 28							2.991 (2+,3,4+)	28		
136CE 29							3.011	29		
136CE 30	3.095		10+					30	1.9 US	1
136CE 31				3.146		(8-)		31	3 NS	LE
136CE 32							3.174 (1,2+)	32		
136CE 33	3.201		(2+)					33		
136CE 34							3.233 (1,2,3)	34		
136CE 35							3.264 (1,2+)	35		
136CE 36				3.278		9-		36	3 NS	LE

136CE	37					3.281 (1,2+)	37			
136CE	38					3.362 (1,2+)	38			
136CE	39	3.400	(10+)				39	3 NS		LE
136CE	40	3.441	(9+)				40			
136CE	41					3.575	41			
136CE	42					3.579 (1,2+)	42			
136CE	43					3.705 (1,2,3)	43			
136CE	44	3.760	12+				44			
136CE	45	3.865	(10+)				45			
136CE	46			3.987	(10-)		46	3 NS		LE
136CE	47					4.023 (1,2,3)	47			
136CE	48			4.084	11-		48	3 NS		LT
136CE	49			4.240	(11-)		49			
136CE	50	4.360	(11+)				50			
136CE	51			4.597	(12-)		51			
136CE	52	4.786	14+				52			
136CE	53	4.833	(14+)				53			
136CE	54			4.872	(13-)		54			
136CE	55	4.928	(13+)				55			
136CE	56			5.097	(13-)		56			
136CE	57	5.305	15+				57			
136CE	58	5.568	(15+)				58	0.69 PS		26
136CE	59	5.594	(16+)				59			
136CE	60	5.643	16+				60	0.69 PS		GT
136CE	61			5.645	14-		61			
136CE	62			5.662	(14-)		62			
136CE	63			5.801	(15-)		63			
136CE	64			5.809	15-		64			
136CE	65					5.841 (16)	65			
136CE	66					5.856	66			
136CE	67	5.877	17+				67	0.69 PS		GT
136CE	68			5.995	16-		68			
136CE	69	6.098	(17+)				69	0.56 PS		LT
136CE	70	6.170	(18+)				70	0.69 PS		GT
136CE	71	6.273	(17+)				71	0.35 PS		9
136CE	72			6.282	17-		72			
136CE	73					6.380	73			
136CE	74					6.524 (19)	74			
136CE	75	6.539	(19+)				75	0.40 PS		15
136CE	76	6.642	(18+)				76			
136CE	77			6.663	18-		77	0.509 PS		15
136CE	78			6.832	(17-)		78			
136CE	79					6.885	79			
136CE	80	6.933	(20+)				80	0.55 PS		+17-18
136CE	81	7.086	(19+)				81			

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136CE  82 |                  |   7.099     19-    |                  82   0.315 PS +12-10
S-p    =   7.154 ( 0.009) ----------------------------------------------------------
136CE  83 |  7.238     (19+) |                   |                  83
136CE  84 |                  |                   |   7.293          84
136CE  85 |                  |                   |   7.326          85
136CE  86 |  7.345     (21+) |                   |                  86   0.43 PS   LT
136CE  87 |                  |   7.585     20-   |                  87   0.263 PS +26-31
136CE  88 |  7.801     (22+) |                   |                  88
136CE  89 |                  |   8.110     21-   |                  89   0.253 PS +18-28
136CE  90 |                  |                   |   8.215          90
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136CE  91 |  8.316     (23+) |                   |                  91
136CE  92 |                  |   8.625     22-   |                  92   0.43 PS   LT
136CE  93 |                  |   9.228     23-   |                  93


S-p    =   7.154 ( 0.009) ----------------------------------------------------------
S-n    =   9.964 ( 0.010) ----------------------------------------------------------
S-2p   =  12.137 ( 0.000) ----------------------------------------------------------
S-2n   =  17.818 ( 0.020) ----------------------------------------------------------
S-alpha=   0.499 ( 0.001) ----------------------------------------------------------

S+p       =  -3.982 ( 0.008)
S+n       =  -7.481 ( 0.000)
S+2p      = -10.086 ( 0.012)
S+2n      = -17.200 ( 0.001)
S+alpha   =  -0.174 ( 0.003)

gap p     =   3.172 ( 0.012)
gap n     =   2.482 ( 0.010)
gap 2p    =   2.050 ( 0.012)
gap 2n    =   0.619 ( 0.020)
gap alpha =   0.325 ( 0.003)
```