

$^{134}\text{Ce}$        $Z = 58$        $N = 76$       [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1121.013 ( 0.020) MeV

Qbeta+ = 0.386 ( 0.029) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-0.004	( 0.021)	-----		
134CE 1	0.000	0+			1 3.16 D 4
134CE 2	0.409	2+			2 23 PS 2
134CE 3	0.966	2+			3
134CE 4	1.049	4+			4 3.3 PS 6
134CE 5	1.383	3+			5
134CE 6				1.533 (0+)	6
134CE 7				1.572	7
134CE 8	1.643	4+			8
134CE 9				1.775	9
134CE 10				1.812 (4)+	10
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134CE 11	1.863	6+			11 2.8 PS 9
134CE 12				1.904 1,2,3	12
134CE 13				1.964 (2+)	13
134CE 14				1.989 1,2,3	14
134CE 15				2.027 (4)+	15
134CE 16	2.050	5+			16
134CE 17				2.159	17
134CE 18				2.170 (5)	18
134CE 19				2.174 (5)-	19
134CE 20				2.206	20
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134CE 21				2.247 (5)	21
134CE 22				2.261	22
134CE 23				2.272	23
134CE 24	2.304	6+			24
134CE 25				2.314 1,2,3	25
134CE 26				2.339	26
134CE 27				2.359 (6-)	27
134CE 28				2.361 6(+)	28
134CE 29				2.373	29
134CE 30				2.474 (6)-	30
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134CE 31				2.545 (3)	31
134CE 32				2.566 (7)-	32
134CE 33				2.655	33
134CE 34				2.707 (7)-	34
134CE 35				2.768 (7+)	35
134CE 36				2.773	36

134CE 37		2.811	8+				37	0.7 PS	LT
134CE 38						2.821 (7)	38		
134CE 39						2.840	39		
134CE 40						2.896 (8)-	40		
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134CE 41						2.948	41		
134CE 42						2.970 (8-)	42		
134CE 43		3.018	8+				43		
134CE 44						3.032	44		
134CE 45						3.069	45		
134CE 46						3.073 (9)	46		
134CE 47						3.141	47		
134CE 48						3.158 (9)-	48		
134CE 49						3.199	49		
134CE 50		3.209	10+				50	308 NS	5
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134CE 51						3.261	51		
134CE 52						3.289	52		
134CE 53						3.299	53		
134CE 54						3.306	54		
134CE 55						3.317	55		
134CE 56						3.405 (10)-	56		
134CE 57						3.467	57		
134CE 58						3.592	58		
134CE 59						3.593	59		
134CE 60						3.601 (9-)	60		
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134CE 61						3.658	61		
134CE 62						3.663	62		
134CE 63		3.719	10+				63	5.8 PS	10
134CE 64						3.751 (11)-	64		
134CE 65						3.818 (10+)	65		
134CE 66						3.866	66		
134CE 67						3.895	67		
134CE 68		4.007	12+				68		
134CE 69						4.023 (9-)	69		
134CE 70						4.109	70		
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134CE 71						4.142 (12)-	71		
134CE 72		4.184	12+				72	11.0 PS	13
134CE 73						4.188 (10)-	73		
134CE 74						4.384 (11)-	74		
134CE 75						4.540 (13)-	75		
134CE 76						4.623 (12)-	76		
134CE 77		4.763	14+				77		
134CE 78						4.898 (13)-	78		
134CE 79		4.908	14+				79	1.2 PS	4
134CE 80						5.018 (14)-	80		
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134CE 81						5.230 (14)-	81		

134CE 82				5.493	(15)-	82				
134CE 83				5.495	(15)-	83				
134CE 84				5.592	(14)-	84				
134CE 85				5.629	(15)-	85				
134CE 86		5.726	16+			86	1.5 PS	5		
134CE 87				5.746	(15)-	87				
134CE 88				5.866	(16+)	88				
134CE 89				5.965	(16)-	89				
134CE 90				6.024	(16)-	90				
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134CE 91				6.049	(16)-	91	0.56 PS	8		
134CE 92				6.306	(17)-	92	0.59 PS	5		
134CE 93				6.524	(17)-	93	0.64 PS	LT		
134CE 94				6.598	(18+)	94				
S-p	=	6.628	( 0.035)	-----						
134CE 95				6.763	(18)-	95	0.236 PS	21		
134CE 96				7.045	(18-)	96				
134CE 97				7.068	(18)-	97				
134CE 98				7.283	(19)-	98	0.194 PS	21		
134CE 99				7.583	(20+)	99				
134CE 100				7.831	(20)-	100	0.22 PS	LT		
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134CE 101				8.585	(22+)	101				
134CE 102				9.538	(24+)	102				
S-n	=	10.486	( 0.026)	-----						
134CE 103				10.529	(26+)	103				
S-2p	=	10.976	( 0.020)	-----						
134CE 104				11.603	(28+)	104				
134CE 105				12.764	(30+)	105				
134CE 106				14.009	(32+)	106				
134CE 107				15.332	(34+)	107				
134CE 108				X		108				
134CE 109				928+X		109				
134CE 110				1916+X		110				
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134CE 111				2966+X		111				
134CE 112				4077+X		112				
134CE 113				5251+X		113				
134CE 114				6490+X		114				
134CE 115				7789+X		115				
134CE 116				9154+X		116				
134CE 117				10587+X		117				
134CE 118				12090+X		118				
134CE 119				13665+X		119				
134CE 120				15313+X		120				
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134CE 121				17039+X		121				
134CE 122				Y		122				
134CE 123				911+Y		123				
134CE 124				1923+Y		124				

134CE 125			3035+Y	125
134CE 126			4247+Y	126
134CE 127			5573+Y	127
134CE 128			Z	128
134CE 129			874+Z	129
134CE 130			1824+Z	130
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134CE 131			2868+Z	131
134CE 132			4004+Z	132
134CE 133			5228+Z	133
134CE 134			6540+Z	134
134CE 135			7926+Z	135
134CE 136			9377+Z	136
134CE 137			10897+Z	137

S-p = 6.628 ( 0.035)-----  
S-n = 10.486 ( 0.026)-----  
S-2p = 10.976 ( 0.020)-----  
S-2n = 18.505 ( 0.029)-----  
S-alpha= -0.004 ( 0.021)-----

S+p = -3.392 ( 0.024)  
S+n = -7.854 ( 0.023)  
S+2p = -8.944 ( 0.024)  
S+2n = -17.818 ( 0.020)  
S+alpha = 0.390 ( 0.023)

gap p = 3.236 ( 0.042)  
gap n = 2.632 ( 0.035)  
gap 2p = 2.032 ( 0.031)  
gap 2n = 0.687 ( 0.035)  
gap alpha = 0.386 ( 0.031)