

$^{134}\text{Ba}$        $Z = 56$        $N = 78$       [link to full NNDC output](#)

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

BE = 1126.695 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
134BA 1	0.000	0+			1 STABLE
134BA 2	0.605	2+			2 5.12 PS 9
134BA 3	1.168	2+			3 2.7 PS 8
134BA 4	1.401	4+			4 0.83 PS 9
S-alpha=	1.494 ( 0.000)				
134BA 5	1.643	3+			5 78 PS 21
134BA 6	1.761	0+			6
134BA 7	1.970	4+			7
134BA 8			1.986 5-		8 52 NS 6
134BA 9	2.029	2+			9 0.159 PS 16
134BA 10	2.088	2+			10 0.059 PS 5
134BA 11				2.118 (4+)	11
134BA 12				2.160 (0)+	12 0.104 PS +28-21
134BA 13				2.165 (4+)	13
134BA 14				2.211 (6+)	14
134BA 15				2.245	15
134BA 16			2.255 3-		16
134BA 17			2.272 7-		17
134BA 18				2.280 (2,3)	18
134BA 19				2.285 (5)+	19
134BA 20				2.300 (6+)	20
134BA 21				2.311 (1)	21
134BA 22				2.335 1,2+	22 0.21 PS +10-6
134BA 23	2.337	0+			23 0.097 PS +28-21
134BA 24	2.371	2+			24 0.46 PS +21-12
134BA 25				2.377 (6)	25
134BA 26	2.379	0+			26
134BA 27				2.464 (2+)	27
134BA 28				2.470 (5)+	28
134BA 29	2.479	4+			29
134BA 30				2.480 (2,3)	30
134BA 31	2.488	0+			31 0.13 PS +9-4
134BA 32				2.506 (4+)	32 0.15 PS +23-7
134BA 33				2.531 (5- TO 7-)	33
134BA 34				2.537 0 TO 2	34 0.15 PS +19-6
134BA 35				2.565 1+,2+	35 0.06 PS +12-4
134BA 36				2.571 1(+)	36
134BA 37				2.574 (2+)	37

134BA 38		2.600	2+					38
134BA 39						2.656	(2+)	39
134BA 40						2.662	3 TO 5	40
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134BA 41						2.678	3,4	41
134BA 42						2.697	1,2	42
134BA 43						2.729	1,2+	43
134BA 44		2.748	2+					44
134BA 45						2.759	1,2+	45
134BA 46						2.761	1,2	46
134BA 47						2.774	3,4	47
134BA 48						2.780		48
134BA 49						2.806	(1)	49
134BA 50					2.824	1-		50
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134BA 51						2.829	1+,2+	51
134BA 52						2.836	(8+)	52
134BA 53		2.851	2+					53
134BA 54		2.874	0+					54
134BA 55						2.877	3 TO 5	55
134BA 56						2.887	1,2	56
134BA 57						2.913		57
134BA 58						2.918	2	58
134BA 59						2.926	3 TO 5	59
134BA 60		2.939	1+					60
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134BA 61						2.944	2 TO 4	61
134BA 62						2.951	3,4	62
134BA 63						2.957	(10+)	63
134BA 64						2.996	(0)+	64
134BA 65						3.004	1,2+	65
134BA 66						3.011	(1)	66
134BA 67						3.012		67
134BA 68						3.027	(1+)	68
134BA 69						3.061	2(+)	69
134BA 70						3.069	1,2+	70
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134BA 71						3.075	(2)	71
134BA 72		3.079	4+					72
134BA 73						3.087	1+,2+	73
134BA 74						3.160	1,2+	74
134BA 75						3.181	(0)+	75
134BA 76						3.216	1,2+	76
134BA 77						3.240	(9-)	77
134BA 78						3.242		78
134BA 79						3.246	(1+)	79
134BA 80						3.262	2 TO 4	80
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134BA 81						3.272	1-,2-	81
134BA 82						3.311		82

134BA 83				3.315	2,3	83
134BA 84				3.327	(1+)	84
134BA 85				3.328		85
134BA 86				3.343	(1)	86
134BA 87				3.369	1,2	87
134BA 88				3.372	2 TO 4	88
134BA 89				3.409	1,2	89
134BA 90				3.432	1,2+	90
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134BA 91				3.443	2 TO 4	91
134BA 92				3.450	(1+)	92
134BA 93				3.451	1,2+	93
134BA 94				3.459		94
134BA 95	3.471	2+				95
134BA 96				3.500	(1,2)	96
134BA 97				3.501	(0)+	97
134BA 98				3.504		98
134BA 99				3.549	1,2+	99
134BA 100				3.560	1	100
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134BA 101				3.589	1	101
134BA 102				3.599		102
134BA 103				3.617	(1)	103
134BA 104				3.618	(0)+	104
134BA 105				3.636		105
134BA 106				3.652	1,2+	106
134BA 107	3.684	2+				107
134BA 108				3.705	1	108
134BA 109				3.754		109
134BA 110				3.783	(1)	110
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134BA 111				3.836	1	111
134BA 112	3.854	2+				112
134BA 113				3.899		113
134BA 114				3.954		114
134BA 115				3.980	(1)	115
134BA 116				3.992	(1)	116
134BA 117				4.001		117
134BA 118				4.019		118
134BA 119				4.083		119
134BA 120				4.517		120
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134BA 121				4.550		121
134BA 122				4.635		122
134BA 123				5.001		123
134BA 124				5.015		124
134BA 125				5.231		125

S-p = 8.168 ( 0.000)-----

S-n = 9.467 ( 0.001)-----  
S-2p = 14.249 ( 0.000)-----  
S-2n = 16.657 ( 0.001)-----  
S-alpha= 1.494 ( 0.000)-----

S+p = -4.983 ( 0.009)  
S+n = -6.972 ( 0.000)  
S+2p = -12.137 ( 0.000)  
S+2n = -16.080 ( 0.000)  
S+alpha = -1.046 ( 0.005)

gap p = 3.185 ( 0.009)  
gap n = 2.495 ( 0.001)  
gap 2p = 2.112 ( 0.001)  
gap 2n = 0.578 ( 0.001)  
gap alpha = 0.448 ( 0.005)