

$^{132}\text{Ba}$        $Z = 56$        $N = 76$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 1110.037 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
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132BA 1	0.000	0+			1 3.0E+21 Y GT
132BA 2	0.465	2+			2 15.1 PS 11
S-alpha=	0.999 ( 0.001)				
132BA 3	1.032	2+			3 1.08 PS 10
132BA 4	1.128	4+			4
132BA 5	1.504	0+			5
132BA 6	1.511	3+			6
132BA 7	1.660	0+			7
132BA 8	1.686	2+			8
132BA 9	1.729	4+			9
132BA 10	1.932	6+			10
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132BA 11	1.944	(4+)			11
132BA 12	1.998	2+			12
132BA 13			2.027 4-		13
132BA 14	2.046	(2+)			14
132BA 15	2.046	(4+)			15
132BA 16			2.069 3-		16
132BA 17			2.120 5-		17 0.40 NS +20-10
132BA 18			2.220 (3-)		18
132BA 19	2.226	(5+)			19
132BA 20	2.241	6(+)			20
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132BA 21	2.271	0+			21
132BA 22				2.288 (2+,3,4+)	22
132BA 23			2.312 5(-)		23
132BA 24			2.358 (6-)		24
132BA 25			2.374 3-		25
132BA 26	2.406	0+			26
132BA 27			2.423 6(-)		27
132BA 28				2.439 (2+:6+)	28
132BA 29			2.453 (1-)		29
132BA 30			2.483 (7-)		30 0.2 NS LT
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132BA 31	2.492	(4+)			31
132BA 32				2.505 (2)	32
132BA 33			2.567 (3)-		33
132BA 34			2.610 (5-)		34
132BA 35	2.660	(4+)			35
132BA 36				2.693 (4,5-)	36

132BA 37				2.718	7(-)			37
132BA 38		2.736	0+					38
132BA 39							2.772 (4-,6-)	39
132BA 40					2.792	(5-)		40
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132BA 41		2.800	8+					41
132BA 42					2.856	(2)-		42
132BA 43		2.867	(8+)					43
132BA 44		2.876	(1+)					44
132BA 45		2.886	0+					45
132BA 46					2.901	(8-)		46
132BA 47					2.902	(7-)		47
132BA 48					2.928	(3-)		48
132BA 49		2.935	(7+)					49
132BA 50					2.946	(5-)		50
-----								
132BA 51					2.961	(8-)		51
132BA 52							2.981 (1,2+)	52
132BA 53							2.982	53
132BA 54					3.019	(6-)		54
132BA 55							3.021 (1,2+,3)	55
132BA 56							3.069 (1+,2+,3,	56
132BA 57							3.083	57
132BA 58					3.095	(8-)		58
132BA 59					3.105	(8-)		59
132BA 60		3.116	10+					60 8.94 NS 14
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132BA 61		3.122	(8+)					61
132BA 62					3.158	(1)-		62
132BA 63					3.188	(9-)		63
132BA 64							3.196	64
132BA 65							3.217	65
132BA 66		3.219	(2+)					66
132BA 67		3.229	(6+)					67
132BA 68							3.327 (4,5-)	68
132BA 69							3.336 (3-,5-)	69
132BA 70					3.340	(9-)		70
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132BA 71					3.356	(9-)		71
132BA 72							3.364 (1,2+)	72
132BA 73							3.381	73
132BA 74		3.412	0+					74
132BA 75					3.424	(3)-		75
132BA 76							3.434	76
132BA 77		3.445	0+					77
132BA 78							3.461 (1,2+)	78
132BA 79					3.482	(9-)		79
132BA 80							3.495 (3,4+)	80
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132BA 81		3.505	(9+)					81

132BA 82				3.527	82
132BA 83				3.546 (9)	83
132BA 84				3.562	84
132BA 85				3.562 (1,2+)	85
132BA 86				3.563 (1,2+)	86
132BA 87				3.591	87
132BA 88	3.599	(10+)			88
132BA 89				3.607 (1,2+)	89
132BA 90				3.608	90
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132BA 91				3.617	91
132BA 92			3.635	1-	92
132BA 93			3.659	(10-)	93
132BA 94				3.663 (1-,2-,3-	94
132BA 95				3.672	95
132BA 96	3.678	(10+)			96
132BA 97				3.697	97
132BA 98				3.717	98
132BA 99				3.717	99
132BA 100			3.721	(10-)	100
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132BA 101				3.734 (2+,3,4+)	101
132BA 102				3.735	102
132BA 103	3.751	0+			103
132BA 104				3.753 (2,3-)	104
132BA 105				3.768 (2,3)	105
132BA 106				3.769	106
132BA 107				3.773 (1,2+)	107
132BA 108	3.776	(2+)			108
132BA 109				3.788	109
132BA 110	3.805	(10+)			110
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132BA 111	3.812	0+			111
132BA 112				3.820	112
132BA 113				3.821	113
132BA 114				3.835 (1,2+)	114
132BA 115				3.849	115
132BA 116				3.863	116
132BA 117				3.879 (1,2+)	117
132BA 118	3.882	0+			118
132BA 119				3.887 (3,4+)	119
132BA 120				3.903 (2+,3,4+)	120
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132BA 121	3.906	(11+)			121
132BA 122				3.907	122
132BA 123	3.916	(12+)			123
132BA 124				3.918 (2+,3,4+)	124
132BA 125	3.943	(10+)			125
132BA 126				3.943 (0+:4+)	126
132BA 127			3.950	(11-)	127

132BA 128				3.965	128
132BA 129				3.968 (2+,3,4+)	129
132BA 130				3.974 (3,4+)	130
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132BA 131				3.975	131
132BA 132				4.010	132
132BA 133				4.028 (2+,3,4+)	133
132BA 134			4.061 (11-)		134
132BA 135				4.090	135
132BA 136	4.108	(10+)			136
132BA 137				4.229	137
132BA 138	4.312	(11+)			138
132BA 139	4.362	(12+)			139
132BA 140			4.365 (11-)		140
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132BA 141			4.440 (12-)		141
132BA 142	4.547	(12+)			142
132BA 143			4.556 (12-)		143
132BA 144	4.565	(12+)			144
132BA 145	4.689	(12+)			145
132BA 146	4.704	(12+)			146
132BA 147			4.711 (13-)		147
132BA 148	4.805	(14+)			148
132BA 149	4.811	(11+)			149
132BA 150			4.820 (13-)		150
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132BA 151			4.863 (11-)		151
132BA 152	4.882	(13+)			152
132BA 153	4.984	(13+)			153
132BA 154	4.997	(12+)			154
132BA 155			5.033 (12-)		155
132BA 156				5.085	156
132BA 157			5.104 (13-)		157
132BA 158	5.200	(13+)			158
132BA 159			5.249 (13-)		159
132BA 160			5.282 (15-)		160
-----					
132BA 161	5.307	(14+)			161
132BA 162			5.321 (14-)		162
132BA 163			5.336 (14-)		163
132BA 164	5.376	(14+)			164
132BA 165	5.436	(14+)			165
132BA 166	5.476	(14+)			166
132BA 167	5.540	(15+)			167
132BA 168			5.556 (14-)		168
132BA 169			5.574 (15-)		169
132BA 170	5.630	(14+)			170
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132BA 171			5.721 (14-)		171
132BA 172	5.771	(15+)			172

132BA 173		5.836	(16+)				173
132BA 174					5.870	(15-)	174
132BA 175		5.872	(15+)				175
132BA 176					5.891	(15-)	176
132BA 177					5.964	(15-)	177
132BA 178					5.991	(16-)	178
132BA 179					6.106	(16-)	179
132BA 180						6.134 (15)	180
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132BA 181		6.196	(16+)				181
132BA 182		6.268	(16+)				182
132BA 183					6.274	(16-)	183
132BA 184					6.294	(17-)	184
132BA 185		6.374	(17+)				185
132BA 186					6.414	(17-)	186
132BA 187					6.485	(17-)	187
132BA 188		6.665	(17+)				188
132BA 189		6.691	18+				189
132BA 190					6.821	18-	190
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132BA 191		6.955	(18+)				191
132BA 192		7.144	(18+)				192
132BA 193					7.238	(19-)	193
132BA 194					7.287	(19-)	194
132BA 195		7.397	(19+)				195
132BA 196		7.624	(20+)				196
S-p	=	7.668	(0.001)	-----			
132BA 197					7.751	(20-)	197
132BA 198					8.310	(21-)	198
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S-p	=	7.668	(0.001)	-----			
S-n	=	9.827	(0.001)	-----			
S-2p	=	13.132	(0.001)	-----			
S-2n	=	17.321	(0.001)	-----			
S-alpha	=	0.999	(0.001)	-----			
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S+p	=	-4.349	(0.028)				
S+n	=	-7.190	(0.001)				
S+2p	=	-10.976	(0.020)				
S+2n	=	-16.658	(0.001)				
S+alpha	=	-0.499	(0.001)				
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gap p	=	3.320	(0.028)				
gap n	=	2.637	(0.002)				
gap 2p	=	2.156	(0.020)				
gap 2n	=	0.663	(0.002)				
gap alpha	=	0.501	(0.002)				