

^{64}Ga $Z = 31$ $N = 33$ adopted link ENSDF link

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

BE = 551.144 (0.001) MeV

Qbeta+ = 7.171 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
64GA 1	0.000	0+			1 2.627 M 12
64GA 2				0.043 (2+)	2 21.9 US 7
64GA 3	0.128	1+			3 6.9 NS 7
64GA 4				0.171 (3+)	4 3 NS AP
64GA 5				0.323 (2+)	5
64GA 6	0.427	1+			6
64GA 7				0.535 (3+)	7
64GA 8				0.538 (4+)	8
64GA 9				0.550 (1,2+)	9
64GA 10				0.605 (2+,3-)	10
64GA 11	0.667	1+			11
64GA 12				0.708 (4+)	12
64GA 13				0.712	13
64GA 14				0.765 (3,2+)	14
64GA 15				0.817 (1+)	15
64GA 16				0.829	16
64GA 17				0.852 (2+,1+)	17
64GA 18	0.937	1+			18
64GA 19				1.021 (5+)	19
64GA 20				1.032	20
64GA 21				1.054	21
64GA 22				1.065 (1+)	22
64GA 23				1.136	23
64GA 24				1.233	24
64GA 25				1.280 (4+)	25
64GA 26				1.357 (5+)	26
64GA 27				1.421	27
64GA 28				1.460	28
64GA 29				1.479	29
64GA 30				1.552	30
64GA 31				1.578	31
64GA 32				1.685 (5+)	32
64GA 33				1.759	33
64GA 34				1.785	34
64GA 35				1.799 (6+)	35
64GA 36	1.803	1+			36
64GA 37				1.818	37

64GA 38						1.843	(5-)	38	
64GA 39						1.859		39	
64GA 40		1.923	0+					40	

64GA 41						1.950	(6+)	41	
64GA 42						1.991		42	
64GA 43						2.033	(7-)	43	
64GA 44						2.053	(6+)	44	
64GA 45						2.104		45	
64GA 46						2.189		46	
64GA 47						2.223		47	
64GA 48						2.313		48	
64GA 49						2.337		49	
64GA 50						2.354		50	

64GA 51						2.384		51	
64GA 52						2.396	(7-)	52	
64GA 53						2.415		53	
64GA 54						2.448		54	
64GA 55						2.548		55	
64GA 56		2.585	1+					56	
64GA 57		2.645	1+					57	
64GA 58						2.730		58	
64GA 59						2.874		59	

S-alpha=		2.912	(0.002)						
64GA 60		2.913	1+					60	

64GA 61						2.940	(2+)	61	
64GA 62						2.994		62	
64GA 63		3.084	1+					63	
64GA 64						3.090	(8-)	64	
64GA 65						3.103	(9-)	65	
64GA 66						3.164		66	
64GA 67		3.222	1+					67	
64GA 68		3.289	1+					68	
64GA 69		3.332	1+					69	
64GA 70						3.430		70	

64GA 71		3.527	1+					71	
64GA 72						3.574	(9+)	72	
64GA 73						3.586		73	
64GA 74						3.690		74	
64GA 75						3.764		75	
64GA 76		3.829	1+					76	

S-p =		3.908	(0.002)						
64GA 77		3.911	1+					77	
64GA 78						3.954		78	
64GA 79						4.033	(1+)	79	
64GA 80		4.086	1+					80	

64GA 81		4.121	1+				81	
64GA 82						4.197	82	
64GA 83						4.323	83	
64GA 84						4.437	84	
64GA 85						4.473	(11+)	85
64GA 86		4.679	1+				86	
64GA 87		4.721	1+				87	
64GA 88						4.937	(1+)	88
64GA 89		5.004	1+				89	
64GA 90		5.134	1+				90	

64GA 91		5.272	1+				91	
64GA 92		5.322	1+				92	
64GA 93						5.349		93
64GA 94						5.505		94
64GA 95		5.578	1+					95
64GA 96						5.629	(12)	96
64GA 97						5.643		97
64GA 98						5.746		98
64GA 99						5.853	(1+)	99
64GA 100						6.131		100

64GA 101						6.171		101
64GA 102		6.247	1+					102
64GA 103		6.285	1+					103
64GA 104		6.359	1+					104
64GA 105		6.412	1+					105
64GA 106		6.562	1+					106
64GA 107		6.608	1+					107
64GA 108		6.682	1+					108
64GA 109		6.733	1+					109
64GA 110		6.774	1+					110

64GA 111		6.850	1+					111
64GA 112		6.884	1+					112
64GA 113		6.971	1+					113
64GA 114		7.065	1+					114
64GA 115		7.173	1+					115
64GA 116		7.301	1+					116
64GA 117						7.335		117
64GA 118		7.389	1+					118
64GA 119		7.416	1+					119
64GA 120		7.450	1+					120

64GA 121		7.511	1+					121
64GA 122						7.578		122
64GA 123		7.619	1+					123
64GA 124		7.679	1+					124
64GA 125						7.713		125
64GA 126						7.740		126

64GA 127						7.760		127
64GA 128						7.787		128
64GA 129						7.841	(1+)	129
64GA 130						7.888		130

64GA 131		7.942		1+				131
64GA 132						7.996		132
64GA 133						8.037	(1+)	133
64GA 134		8.070		1+				134
64GA 135		8.151		1+				135
64GA 136						8.300		136
64GA 137						8.496	(1+)	137
64GA 138		8.577		1+				138
64GA 139						8.665		139
64GA 140		8.838		1+				140

64GA 141		8.902		1+				141
64GA 142						9.010	(1+)	142
64GA 143						9.058		143
64GA 144		9.112		1+				144
64GA 145						9.146		145
64GA 146						9.207		146
64GA 147						9.254		147
64GA 148						9.376		148
64GA 149						9.437		149
64GA 150						9.471		150

64GA 151						9.586	(1+)	151
64GA 152						9.641	(1+)	152
64GA 153		9.695		1+				153
64GA 154		9.851		1+				154
64GA 155						9.973	(1+)	155

S-p = 3.908 (0.002)-----
S-n = 10.357 (0.002)-----
S-2p = 10.623 (0.002)-----
S-2n = 22.988 (0.002)-----
S-alpha= 2.912 (0.002)-----

S+p = -4.934 (0.003)
S+n = -11.896 (0.002)
S+2p = -7.770 (0.006)
S+2n = -21.034 (0.002)
S+alpha = -2.487 (0.002)

gap p = -1.026 (0.003)
gap n = -1.539 (0.003)
gap 2p = 2.853 (0.006)
gap 2n = 1.955 (0.002)

gap alpha = 0.426 (0.003)