

^{65}Ga $Z = 31$ $N = 34$ adopted link ENSDF link

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

BE = 563.040 (0.001) MeV

Qbeta+ = 3.254 (0.001) MeV

	Energy	T	J+	J-	J-other	T1/2

65GA	1			0.000	3/2-	1 15.2 M 2
65GA	2			0.062	(1/2)-	2 1.2 NS LT
65GA	3			0.191	5/2-	3 700 PS LT
65GA	4				0.650 1/2-,3/2-	4
65GA	5				0.809 1/2-,3/2-	5
65GA	6			0.815	3/2-	6
65GA	7			1.076	7/2-	7
65GA	8				1.084 7/2+,9/2+	8
65GA	9				1.135	9
65GA	10			1.287	(9/2)-	10 1.4 PS LT

65GA	11				1.299	11
65GA	12				1.326	12
65GA	13				1.353	13
65GA	14				1.371	14
65GA	15				1.377 5/2-,7/2-	15
65GA	16				1.469	16
65GA	17				1.662 1/2-,3/2-	17
65GA	18				1.807	18
65GA	19				1.864 1/2-,3/2-	19
65GA	20				1.879	20

65GA	21				1.902	21
65GA	22				1.967	22
65GA	23				1.983	23
65GA	24	2.038	9/2+			24 7 PS 4
65GA	25				2.046	25
65GA	26				2.162	26
65GA	27			2.207	5/2-	27
65GA	28				2.280	28
65GA	29				2.324	29
65GA	30				2.357	30

65GA	31				2.388	31
65GA	32				2.427	32
65GA	33				2.447	33
65GA	34				2.470	34
65GA	35				2.503	35
65GA	36				2.548	36

65GA 37						2.575		37
65GA 38						2.647		38
65GA 39						2.669		39
65GA 40						2.704		40

65GA 41						2.716		41
65GA 42						2.754		42
65GA 43				2.789	13/2-			43 0.6 PS 3
65GA 44						2.811 (3/2,5/2)		44
65GA 45		2.814	(11/2+)					45 0.55 PS 21
65GA 46						2.820 3/2+,5/2+		46
65GA 47						2.906		47
65GA 48						2.924 3/2+,5/2+		48
65GA 49						2.929		49
65GA 50						2.960		50

65GA 51						3.006 (3/2+,5/2)		51
65GA 52						3.036		52
65GA 53		3.065	13/2+					53
65GA 54						3.077		54
65GA 55						3.085		55
65GA 56						3.095		56
S-alpha=		3.098 (0.001)						

65GA 57						3.143		57
65GA 58						3.173		58
65GA 59						3.197		59
65GA 60						3.229		60

65GA 61						3.250		61
65GA 62						3.279		62
65GA 63						3.310		63
65GA 64						3.415		64
65GA 65						3.488		65
65GA 66		3.733	(15/2+)					66
65GA 67		3.911	15/2(+)					67
S-p		=	3.943 (0.001)					

65GA 68		4.123	17/2+					68 0.62 PS LE
65GA 69		4.331	17/2+					69
65GA 70		4.434	17/2+					70

65GA 71		4.548	19/2(+)					71
65GA 72		4.633	17/2+					72
65GA 73						4.851		73
65GA 74						5.023		74
65GA 75						5.065		75
65GA 76						5.116		76
65GA 77						5.192		77
65GA 78						5.240		78
65GA 79						5.298		79
65GA 80						5.339		80

65GA 81	5.352	(1/2+)				81
65GA 82					5.384	82
65GA 83					5.393	83
65GA 84					5.438	84
65GA 85			5.468	19/2-		85
65GA 86					5.481	86
65GA 87	5.498	21/2+				87
65GA 88					5.507	88
65GA 89					5.553	89
65GA 90					5.563	90
65GA 91					5.597	91
65GA 92					5.644	92
65GA 93					5.656	93
65GA 94					5.678	94
65GA 95					5.709	95
65GA 96					5.759	96
65GA 97					5.760	97
65GA 98					5.799	98
65GA 99					5.821	99
65GA 100					5.844	100
65GA 101					5.854	101
65GA 102					5.868	102
65GA 103					5.898	103
65GA 104	5.918	21/2+				104
65GA 105					5.927	105
65GA 106					5.936	106
65GA 107			5.945	21/2(-)		107
65GA 108					5.993	108
65GA 109					6.122	109
65GA 110			6.296	23/2(-)		110
65GA 111			6.672	1/2-		111
65GA 112			6.718	3/2-		112
65GA 113					6.815	113
65GA 114	6.817	25/2+				114
65GA 115					6.824 (9/2)	115
65GA 116					6.835	116
65GA 117					6.840	117
65GA 118	7.035	(27/2+)				118
65GA 119			7.090	25/2(-)		119
65GA 120	7.115	5/2+				120
65GA 121					7.138 (3/2)	121
65GA 122					7.142 (5/2)	122
65GA 123					7.146 (5/2)	123
65GA 124					7.152	124
65GA 125			7.363	27/2(-)		125

65GA 126		7.660	1/2+					126
65GA 127							7.690	127
65GA 128		7.942	29/2+					128
65GA 129		8.200	(27/2+)					129
65GA 130					8.499	29/2(-)		130

65GA 131							8.605	131
65GA 132					8.606	31/2(-)		132
65GA 133							8.833	133
65GA 134							8.888	134
65GA 135		9.332	33/2+					135
65GA 136		9.403	(31/2+)					136
65GA 137							10.170	137
65GA 138							10.193	138
65GA 139							10.508	139
65GA 140		10.978	(35/2+)					140

65GA 141		11.070	37/2+					141
S-n	=	11.896	(0.002)		-----			
S-2p	=	11.656	(0.001)		-----			
65GA 142							12.189	142
65GA 143		12.791	(39/2+)					143
65GA 144		13.239	41/2+					144
65GA 145							14.025	145
65GA 146		15.044	(43/2+)					146
65GA 147							15.981	147

S-p	=	3.943	(0.001)		-----			
S-n	=	11.896	(0.002)		-----			
S-2p	=	11.656	(0.001)		-----			
S-2n	=	22.253	(0.002)		-----			
S-alpha	=	3.098	(0.001)		-----			
S+p	=	-6.238	(0.003)					
S+n	=	-9.138	(0.001)					
S+2p	=	-8.508	(0.001)					
S+2n	=	-20.364	(0.001)					
S+alpha	=	-2.880	(0.032)					
gap p	=	-2.296	(0.003)					
gap n	=	2.759	(0.002)					
gap 2p	=	3.148	(0.001)					
gap 2n	=	1.889	(0.002)					
gap alpha	=	0.219	(0.032)					