

^{70}Ga $Z = 31$ $N = 39$ [link to full NNDC output](#)

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

BE = 609.650 (0.001) MeV
 Qbeta- = 1.652 (0.001) MeV
 Qbeta+ = 0.655 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
70GA 1	0.000	1+			1 21.14 M 5
70GA 2	0.508	2+			2
70GA 3				0.651 1+,2+	3
70GA 4			0.691 2-		4
70GA 5			0.879 4-		5 22.7 NS 5
70GA 6				0.901 1+,2+,3+	6 1.4 NS LT
70GA 7	0.995	2+			7
70GA 8				1.003	8
70GA 9				1.009	9
70GA 10				1.009 1+,2+,3+	10
70GA 11				1.015 1+,2+,3+	11
70GA 12				1.024 2+,3+	12
70GA 13				1.034 (5)-	13
70GA 14				1.086	14 24 NS 4
70GA 15				1.101 2-,3-,4-	15
70GA 16				1.135 1,2	16
70GA 17				1.140 1,2	17
70GA 18				1.181 5	18
70GA 19	1.204	2+			19 220 FS GT
70GA 20				1.234 (6)-	20
70GA 21				1.245 2	21 500 FS GT
70GA 22				1.253 3-,4-	22
70GA 23	1.259	1+ TO 4+			23
70GA 24				1.263	24
70GA 25				1.306	25
70GA 26				1.307	26
70GA 27				1.312 1+,2+	27 170 FS +50-25
70GA 28				1.325 -	28
70GA 29			1.337 2-		29
70GA 30	1.359	2+			30
70GA 31				1.372 (7-)	31
70GA 32				1.413	32
70GA 33				1.446 1+,2+	33 0.27 PS +56-9
70GA 34				1.456 1+,2+	34
70GA 35				1.501 1+,2+	35
70GA 36				1.518 1+,2+	36

70GA 37						1.523		37
70GA 38		1.534	2+					38
70GA 39						1.539	(6)	39
70GA 40		1.554	2+					40

70GA 41						1.598		41
70GA 42						1.621	1-,2-	42
70GA 43						1.634	1,2,3	43
70GA 44						1.646	2-,3-,4-	44
70GA 45						1.661	-	45
70GA 46					1.688 6-			46
70GA 47						1.691		47
70GA 48						1.721	1+,2+,3+	48
70GA 49						1.726		49
70GA 50						1.735		50

70GA 51						1.794	1+,2+,3+	51
70GA 52						1.808		52
70GA 53						1.824		53
70GA 54						1.846		54
70GA 55						1.865		55
70GA 56						1.877		56
70GA 57						1.905	+	57
70GA 58						1.914	1-,2-	58
70GA 59						1.931	+	59
70GA 60						1.937	+	60

70GA 61						1.970	+	61
70GA 62						1.984		62
70GA 63						2.016	-	63
70GA 64						2.026		64
70GA 65						2.074		65
70GA 66						2.093		66
70GA 67						2.100	+	67
70GA 68						2.115		68
70GA 69						2.128		69
70GA 70						2.143	-	70

70GA 71						2.164		71
70GA 72						2.190		72
70GA 73						2.214		73
70GA 74						2.232		74
70GA 75						2.254		75
70GA 76						2.300	+	76
70GA 77						2.320		77
70GA 78						2.351		78
70GA 79						2.374		79
70GA 80						2.388		80

70GA 81						2.410		81

70GA 82				2.431		82
70GA 83				2.446	-	83
70GA 84				2.464		84
70GA 85				2.477		85
70GA 86				2.520	-	86
70GA 87				2.549		87
70GA 88				2.572	-	88
70GA 89				2.601	(8)	89
70GA 90				2.625		90

70GA 91				2.652	-	91
70GA 92				2.655		92
70GA 93				2.682		93
70GA 94				2.698		94
70GA 95				2.726		95
70GA 96				2.886	(9)	96
S-alpha=	5.077	(0.001)	-----			
70GA 97				7.654	1-,2-	97

S-p = 7.781 (0.001)-----
S-n = 7.654 (0.002)-----
S-2p = 17.921 (0.002)-----
S-2n = 17.967 (0.002)-----
S-alpha= 5.077 (0.001)-----

S+p = -8.285 (0.001)
S+n = -9.300 (0.001)
S+2p = -13.898 (0.004)
S+2n = -15.821 (0.001)
S+alpha = -4.375 (0.002)

gap p = -0.504 (0.002)
gap n = -1.647 (0.002)
gap 2p = 4.023 (0.005)
gap 2n = 2.146 (0.002)
gap alpha = 0.702 (0.002)