

^{68}Ga $Z = 31$ $N = 37$ [link to full NNDC output](#)

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

BE = 591.683 (0.001) MeV

Qbeta+ = 2.921 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
68GA 1	0.000	1+			1 67.71 M 8
68GA 2	0.175	2+			2 5 NS LE
68GA 3	0.321	1+			3
68GA 4	0.375	2+			4
68GA 5	0.376	3+			5 5 NS LE
68GA 6	0.496	4+			6 5 NS LE
68GA 7	0.514	1+			7
68GA 8				0.555 (0,1,2)+	8
68GA 9	0.565	2+			9
68GA 10			0.584 2-		10 5 NS LE
68GA 11	0.676	3+			11
68GA 12	0.806	4+			12 5 NS LE
68GA 13				0.825 1+,2+	13
68GA 14				0.839 1+,2+	14
68GA 15	0.841	3+			15
68GA 16			0.877 4-		16 5 NS LE
68GA 17				0.947 1+,2+,3+	17
68GA 18				0.952 2+,3+	18
68GA 19			1.056 3-		19 5 NS LE
68GA 20				1.064 1+,2,3+	20
68GA 21				1.101 +	21
68GA 22			1.104 5-		22 5 NS LE
68GA 23				1.117 0+,1+,2+	23
68GA 24				1.123 1+,2+,3+	24
68GA 25				1.210	25
68GA 26				1.216 2+,3,4+	26
68GA 27	1.223	5+			27 5 NS LE
68GA 28				1.225 1+,2,3+	28
68GA 29				1.229	29
68GA 30			1.230 7-		30 62.0 NS 14
68GA 31				1.232 3-,4-	31
68GA 32				1.240	32
68GA 33			1.248 5-		33 5 NS LE
68GA 34				1.267 1,2,3+	34
68GA 35				1.275	35
68GA 36				1.287 2+,3,4+	36
68GA 37				1.296 2-,3,4-	37

68GA 38					1.317	+		38		
68GA 39			1.323	6-				39	5 NS	LE
68GA 40					1.342			40		

68GA 41					1.350			41		
68GA 42					1.412			42		
68GA 43					1.425			43		
68GA 44					1.442	3-,4,5+		44		
68GA 45					1.461			45		
68GA 46					1.489			46		
68GA 47					1.494	(5)-		47	5 NS	LE
68GA 48					1.510			48		
68GA 49					1.523			49		
68GA 50					1.539			50		

68GA 51					1.548			51		
68GA 52					1.570			52		
68GA 53					1.591			53		
68GA 54					1.617			54		
68GA 55					1.646			55		
68GA 56					1.657	2+,3,4+		56		
68GA 57					1.688	5-,6-		57		
68GA 58					1.706			58		
68GA 59					1.721			59		
68GA 60					1.742			60		

68GA 61					1.798			61		
68GA 62					1.857	5-,6-,7-		62		
68GA 63					1.913			63		
68GA 64					1.946	5-,6,7-		64		
68GA 65					1.973			65		
68GA 66					2.028			66		
68GA 67					2.039			67		
68GA 68					2.075			68		
68GA 69					2.088	(6)		69	5 NS	LE
68GA 70					2.103	(7,8)		70	5 NS	LE

68GA 71					2.141			71		
68GA 72					2.179			72		
68GA 73					2.285	(7,8)		73	5 NS	LE
68GA 74					2.397	9(-)		74	5 NS	LE
68GA 75					2.612	(8-)		75	5 NS	LE
68GA 76		2.896	9+					76	5 NS	LE
68GA 77					2.953	(8,9-)		77	5 NS	LE
68GA 78					3.818	(9)		78	5 NS	LE
68GA 79					3.853			79		
68GA 80					3.919			80		

68GA 81		3.965	11+					81	5 NS	LE

S-alpha=	4.086 (0.001)-----									

68GA	82				4.646	(11)	82
68GA	83				5.167	(13+)	83
S-p	=	6.495	(0.002)	-----			
68GA	84				6.591	(15+)	84
68GA	85				7.725	(17+)	85

S-p	=	6.495	(0.002)	-----			
S-n	=	8.278	(0.002)	-----			
S-2p	=	15.406	(0.002)	-----			
S-2n	=	19.505	(0.002)	-----			
S-alpha	=	4.086	(0.001)	-----			

S+p	=	-7.304	(0.002)				
S+n	=	-10.313	(0.002)				
S+2p	=	-11.834	(0.050)				
S+2n	=	-17.967	(0.002)				
S+alpha	=	-3.569	(0.004)				

gap p	=	-0.809	(0.003)				
gap n	=	-2.035	(0.003)				
gap 2p	=	3.572	(0.050)				
gap 2n	=	1.538	(0.003)				
gap alpha	=	0.518	(0.005)				