

^{71}Ga $Z = 31$ $N = 40$ [link to full NNDC output](#)

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

BE = 618.950 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
71GA 1			0.000	3/2-	1 STABLE
71GA 2			0.390	1/2-	2 0.40 PS +28-12
71GA 3			0.487	5/2-	3
71GA 4			0.511	3/2-	4 1.5 PS 7
71GA 5				0.714	5
71GA 6			0.910	3/2-	6 0.24 PS 16
71GA 7			0.965	5/2-	7 1.3 PS 2
71GA 8			1.108	7/2-	8 0.58 PS 11
71GA 9			1.109	1/2-	9 95 FS 12
71GA 10			1.395	7/2-	10 0.79 PS 8
71GA 11			1.476	5/2-	11 0.6 PS GT
71GA 12	1.494	9/2+			12 154 PS 15
71GA 13				1.498 (7/2-,9/2-)	13
71GA 14			1.631	3/2-	14 0.15 PS +12-6
71GA 15	1.699	1/2+			15 0.25 PS GT
71GA 16				1.719 (5/2)-	16 0.10 PS +5-2
71GA 17			1.752	3/2-	17 0.26 PS +24-10
71GA 18			1.905	5/2-	18 0.24 PS +11-6
71GA 19				1.942 (3/2+)	19
71GA 20				1.995 5/2-,7/2-	20
71GA 21				2.064 1/2-,3/2-	21 82 FS 40
71GA 22				2.069 (11/2-)	22
71GA 23				2.082 (13/2+)	23
71GA 24				2.134 5/2-,7/2-	24
71GA 25				2.191 5/2-,7/2	25
71GA 26	2.247	7/2+			26 0.021 PS +6-5
71GA 27			2.294	1/2-	27
71GA 28				2.327 1/2-,3/2-	28
71GA 29				2.396 -	29
71GA 30				2.421 1/2-,3/2-	30
71GA 31	2.451	7/2+			31
71GA 32				2.488 7/2+,9/2+	32
71GA 33				2.529 1/2-,3/2-	33
71GA 34				2.551 +	34
71GA 35				2.601 (7/2+,9/2+,11/2+	35)
71GA 36				2.614 +	36
71GA 37				2.658 -	37
71GA 38				2.684 (11/2-,13/2-)	38

71GA 39						2.720	7/2,9/2		39	
71GA 40						2.723	+		40	

71GA 41						2.747	-		41	
71GA 42						2.805	7/2+,9/2+		42	
71GA 43						2.812			43	
71GA 44		2.816	7/2+						44 0.19 PS +13-6	
71GA 45						2.852			45	
71GA 46						2.932			46	
71GA 47						2.941	(17/2+)		47	
71GA 48						2.967	(3/2+,5/2+)		48	
71GA 49						2.974			49	
71GA 50						3.016			50	

71GA 51						3.153	3/2+,5/2+		51	
71GA 52						3.227	1/2-,3/2-		52	
71GA 53						3.438			53	
71GA 54						3.506			54	
71GA 55						3.607	3/2+,5/2+		55	
71GA 56						3.683			56	
71GA 57						3.695	(15/2-,17/2-)		57	
71GA 58						3.749	3/2+,5/2+		58	
71GA 59		3.813	1/2+						59	
71GA 60						3.863			60	

71GA 61						3.999			61	
71GA 62						4.028	(21/2+)		62	
71GA 63						4.060			63	
71GA 64		4.130	1/2+						64	
71GA 65						4.165	(17/2:21/2)(-)		65	
71GA 66		4.211	1/2+						66	
71GA 67						4.278			67	
71GA 68						4.382			68	
71GA 69						4.487			69	
71GA 70		4.644	1/2+						70	

71GA 71						4.692			71	
71GA 72						4.813	(3/2+,5/2+)		72	
71GA 73		5.221	1/2+						73	

S-alpha=		5.245	(0.001)	-----						
S-p	=	7.863	(0.002)	-----						
S-n	=	9.300	(0.001)	-----						
71GA 74				11.590	1/2-			74	20 KEV 5	
71GA 75						11.671	(3/2+)	75	2.0 KEV 2	
71GA 76						11.702	(3/2+)	76	7.0 KEV 7	
71GA 77						11.728	(3/2+)	77	0.50 KEV 5	
71GA 78						11.740	(3/2+)	78	4.0 KEV 4	
71GA 79						11.885		79	23 KEV 5	
71GA 80						12.067		80	34 KEV 5	

71GA	81				12.264	3/2-		81	39 KEV	4
71GA	82		12.453	5/2+				82	15 KEV	2
71GA	83		12.862	5/2+				83	19 KEV	1
71GA	84				13.012	3/2-		84	11 KEV	1
71GA	85		13.215	1/2+				85	42 KEV	2
71GA	86		13.267	5/2+				86	38 KEV	1
71GA	87		13.773	5/2+				87	35 KEV	5

S-p = 7.863 (0.002)-----
 S-n = 9.300 (0.001)-----
 S-2p = 18.981 (0.002)-----
 S-2n = 16.954 (0.001)-----
 S-alpha= 5.245 (0.001)-----

S+p = -9.736 (0.001)
 S+n = -6.521 (0.001)
 S+2p = -15.392 (0.004)
 S+2n = -15.703 (0.002)
 S+alpha = -5.320 (0.001)

gap p = -1.872 (0.002)
 gap n = 2.780 (0.002)
 gap 2p = 3.589 (0.004)
 gap 2n = 1.251 (0.002)
 gap alpha = -0.075 (0.002)